

MIT's
Oldest and Largest
Newspaper



The Weather
Today: Rain showers, 41°F (5°C)
Tonight: Cloudy, damp, 38°F (3°C)
Tomorrow: Mostly cloudy,
48°F (9°C)
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Volume 127, Number 56

Cambridge, Massachusetts 02139

Tuesday, November 20, 2007

Make a Splash: ESP Encourages Students To Dive and Explore

By Elijah Jordan Turner

Hundreds of middle and high school students arrived at MIT last weekend to participate in the Educational Studies Program's annual Splash weekend event.

These participants had the opportunity to take a series of short classes taught by college students, most of who currently study at MIT. Organizers estimate that over 250 volunteers helped make the weekend a success for the nearly 2,000 young students who attended Splash.

Helen LaPlant, a parent from Milford, Conn., brought three of her children and two other teenagers from her neighborhood to Cambridge for this year's event.

LaPlant was pleased with how the program ran. "I like how the courses are either meaty or crazy," LaPlant said.

Her 13-year-old daughter Man-

dy was unable to choose her favorite class of the weekend (she liked them all), but she said that she looks forward to coming to Splash again next year. On the other hand, LaPlant's 16-year-old son Jake seemed to favor "The Delivery and Use of Pick-up Lines," which was taught by Kevin Hwang '10. Jake had one complaint, though: "I tried using them, but they didn't work."

All but LaPlant's youngest daughter participated in Splash; she was too young to take a course this year. LaPlant hopes to enroll her in the weekend program in the future.

ESP, the organizers of Splash, has been in operation for 50 years now, according to Daniel Zaharopol '04, who served as an adviser and teacher during the two-day Splash event. Zaharopol said that Splash was created in 1988 to revitalize interest in ESP.

Unlike many of ESP's other pro-

Splash, Page 10

DiFava, Amster to Head Facilities

By Yan Huang

The Department of Facilities has separated into two divisions: Operations and Security, headed by MIT Police Chief John DiFava, and Capital Projects and Strategic Planning, headed by newcomer Richard Amster Jr. This separation was effective Nov. 5.

"We have a broad range of activities in the facilities department," Executive Vice President Theresa M. Stone SM '76 said. The department naturally clusters into either operations and maintenance or planning and building, and it was Stone's vision to formalize these natural groupings.

Currently, the new Operations and Security division includes utilities, operations, and business resources, while the new Capital Projects and Strategic Planning division includes campus planning and designing, project management, and engineering.

DiFava, chief of the MIT Police and director of security and campus police services, gained additional responsibilities as the head of Operations and Security. His new office resides in the Department of Facilities.

Stone chose Amster to the head of Capital Projects and Strategic Plan-

Facilities, Page 12



ERIC D. SCHMIEDL—TECH FILE PHOTO

MIT Police Chief John DiFava has been promoted to the head of the Operations and Security division of the Department of Facilities. Facilities was split into two divisions, which also includes Capital Projects and Strategic Planning, on Nov. 5.



Koyal Bhattacharyya '09, Elizabeth E. Turner '10, and Amudha Panneerselvam '10 sing "Lady Marmalade," originally performed by Labelle, at Saturday's Resonance concert in 10-250.

In Short

Plans to launch an Indian HST were announced yesterday by the new partnership of MIT and India's Department of Biotechnology. The program, to be modeled after the Harvard-MIT Division of Health Sciences and Technology, will offer multidisciplinary degrees and training.

The new International Innovation Initiative was announced by MIT during a conference in New Delhi, India yesterday. This initiative will facilitate future collaborations between MIT researchers and the global venture capital community.

2008 IAP/Spring allocations applications for the UA Finance Board are due Tuesday, Nov. 27.

Send news information and tips to news@the-tech.mit.edu.

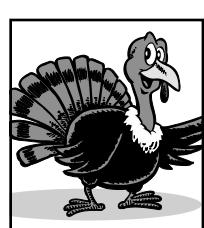
Senior Named Rhodes Scholar

Melis N. Anahtar '08 was named a Rhodes Scholar on Nov. 17. The scholarship will send Anahtar, along with 31 other students from around the world, to Oxford University for two or three years of graduate study.

MIT boasts more than 25 Rhodes scholars in total, according to the MIT Admissions Web site.

Anahtar, a mechanical engineering major, said the honor was unexpected but very exciting. She said she "wanted to study health and medicine" from a foreign perspective. She plans to enter Oxford's masters program in integrated immunology.

—Arkajit Dey



Because of the Thanksgiving Holiday, *The Tech* will not publish Friday and will return Nov. 27.

NEWS
Decline of university tenure track raises concerns.

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Novartis, Page 13

MIT has "developed various new

partnerships with universities, including previous interactions, costs, likelihood of project success, and alignment of goals.

The goal of the Novartis-MIT partnership is to develop new technologies that will allow pharmaceutical companies to change from the current batch manufacturing method to a continuous manufacturing process, Trout said. "The continuous manufacturing will transform the way we develop and manufacture pharmaceuticals," Bisson said. The new process could help to reduce cycle times and improve quality "across the entire manufacturing chain from drug substance to final product."

Other advantages of continuous manufacturing are a reduction in equipment, energy, and raw materials used, improved environmental impact, less safety risk to operators, and a decrease in waste, Bisson said.

Novartis, which has had successful past partnerships with the Institute, chose MIT for this partnership for a number of reasons, Bisson said, including MIT's reputation in science and technology, history of innovation in areas of pharmaceutical manufacturing, and network of experts in academia and industry.

WORLD & NATION

Guard, 20 Others Arrested After Baghdad Shooting

By Cara Buckley

THE NEW YORK TIMES

A security guard along with 20 other people who had been riding in a truck were arrested on Monday after the guard shot a teenage girl in central Baghdad, witnesses and an Iraqi army sergeant said. The guard, whose nationality was not immediately known, wounded the girl, who is 18, in the leg as she crossed the street in the bustling, mixed neighborhood of Karada around noon, according to witnesses.

The shooting spawned numerous and conflicting accounts over what exactly took place. Initial reports suggested that two American security guards had been arrested, but a civilian U.S. official in Baghdad said it was not known whether American guards, or indeed any guards, had been detained. The official also said it was unclear whether the girl had been struck by a bullet or merely by an opening vehicle door. But a witness who ferried the girl to the hospital insisted that she had been shot.

The U.S. official also said it was not believed that any contractors with the State Department in Baghdad were involved.

Security companies hired by or affiliated with the State Department here have been under intense scrutiny since mid-September, when 17 Iraqi civilians were shot and killed by guards with one of those firms, Blackwater Worldwide. That shooting is under investigation by the FBI.

Halting Steps Taken To Frame Peace Talks

By Isabel Kershner

THE NEW YORK TIMES

Israeli and Palestinian leaders made new efforts on Monday toward preparing a joint statement before an international peace gathering planned for next week, but some issues have yet to be resolved, Israeli and Palestinian officials said.

The Israeli prime minister, Ehud Olmert, and the Palestinian president, Mahmoud Abbas, met at the prime minister's residence here to try to salvage efforts to agree on a short written text.

The statement would be presented at the American-sponsored gathering tentatively scheduled for Nov. 26 and 27 in Annapolis, Md.

Miri Eisin, a spokeswoman for Olmert, said after the meeting that there appeared to be progress and "enough agreement on enough issues" to avert any sense of crisis.

Saeb Erekat, a Palestinian negotiator, said the leaders had exchanged new proposals. Are there differences remaining? Yes, he said.

Aides from both sides said the negotiating teams planned to continue working.

Suicide Attack Kills Seven But Spares Afghan Governor

By Abdul Waheed Wafa

THE NEW YORK TIMES

A provincial governor in southwestern Afghanistan narrowly escaped a suicide attack on Monday, but his 25-year-old son and five of his bodyguards were killed in the blast. A civilian bystander was also killed, and 14 others were injured, police officials said.

The bomber approached the governor's compound on foot on Monday morning just 10 minutes after the governor, Ghulam Dastagir Azad, had entered his office in the town of Zaranj, in Nimruz province. He detonated his charge in the street at the entrance to the compound, where the governor's son was standing among a group of people, according to the provincial police chief, Muhammad Dawood Askaryar. He confirmed the death toll and said that of the injured, six were policemen, three were employees of the governor's office and three were civilians.

Thanksgiving Travel Forecast

By Jon Moskaitis

STAFF METEOROLOGIST

Although not exactly ideal, weather conditions today and tomorrow should not cause major problems for those departing Cambridge for the holiday. A warm front moving in from the west will make for a dreary day today, bringing cloudy skies and light rain or wet (non-accumulating) snow. Tonight will be chilly and damp, but then the temperature will rise all the way through Thanksgiving afternoon, in response to southerly flow induced by a low pressure area developing well to our southwest. Overcast skies will predominate during this interlude of warmth, with the clouds perhaps squeezing out a few showers on Thanksgiving.

Nationally, there will be a few areas where the weather is likely to impede travel. Light snow will develop in the Colorado front range Tuesday night and continue into Wednesday, potentially slowing travel to or through Denver. On Wednesday, the low developing in the Midwest will induce a band of rain extending from the western Gulf Coast through Missouri and Illinois to the eastern Great Lakes. It is possible that the rain could turn to snow in the Chicago area late Wednesday, causing delays at that air travel hub.

Extended Forecast

Today: Rain showers, perhaps beginning as wet snow. High: 41°F (5°C).

Tonight: Cloudy, damp. Low: 38°F (3°C).

Tomorrow: Mostly cloudy. High: 48°F (9°C).

Tomorrow night: Increasing southerly wind, temperature rising above 50°F (10°C).

Thanksgiving: Warmer with showers likely. High: 59°F (15°C).

Friday: Partly cloudy, windy, and chilly. High: 40°F (4°C).

Thousands Killed in Cyclone, Millions More Left Homeless

By Graham Bowley

THE NEW YORK TIMES

The number of people left dead after the powerful cyclone that swept through Bangladesh on Thursday rose to more than 3,100 Monday, the government said. The United Nations estimated that a million people had been left homeless, many of them in remote areas without predictable food supplies.

The Bangladesh Red Crescent Society warned Sunday that the number of dead could conceivably be 5,000 to 10,000, and the U.N. World Food Program said Monday that it would not be surprised by such a tally. But on Monday, the International Federation of Red Cross and Red Crescent Societies said reports from its officials who had been to the hardest-hit areas led the organization to expect a final toll in line with the government's official assessment.

"What we are seeing on the ground is not as horrifying," said Devendra Tak, a senior regional spokesman for the federation, who spoke from Khulna, a town in southern Bangladesh, after visiting some of the districts that took the worst pounding from the cyclone, which

had winds of more than 100 miles an hour. "We don't see the level of destruction that we had feared earlier."

Tak said thousands of fishermen who had been missing along the coastal areas and presumed dead had begun to turn up in their villages. "We are very optimistic that the overall disaster will not be on a very high level," Tak said by telephone.

The United Nations said it was waiting for a fuller picture to emerge and that the final death toll could still be significantly higher. Usha Mishra, a senior adviser at the U.N. World Food Program, said food supplies had been severely disrupted, creating risk of famine.

She said the program had begun to distribute some food, including high-energy biscuits. She also said more serious emergency operations were being considered, including broader food distribution and rebuilding of homes. "Shelter is the big need right now," she said. "One million people have been turned homeless."

She said the cyclone had devastated farmland that had already been severely damaged by flooding in August.

"We do face a prospect of some

remote areas not getting some" supplies, she said. "We might see starvation in some areas." The government's officially confirmed death toll from the cyclone reached 3,113, said Lt. Col. Main Ullah Chowdhury, a spokesman for the army, according to The Associated Press.

He said reports were finally reaching the capital, Dhaka, from the areas that had been isolated when the storm washed out roads and knocked down telephone lines, the AP reported.

Even if the death toll rises, it will probably still be relatively low by the historical standards of Bangladesh, a poor country that has suffered from natural calamities in the past.

In 1991, a tropical storm led to roughly 140,000 deaths. Bangladeshi relief agencies have since built early-warning systems and thousands of storm shelters to help people evacuate before disasters strike.

Tak said much of the fury of the cyclone had been dissipated over the region's extensive forests before it struck more inhabited areas. He said the systematic distribution of aid began Sunday and continued Monday, and that many lives had been saved by the cyclone preparedness program.

Federal Prosecutors Subpoena Blackwater Employees in Iraq

By David Johnston
and John M. Broder

THE NEW YORK TIMES

WASHINGTON

Federal prosecutors have issued grand jury subpoenas to some of the Blackwater employees present at a Sept. 16 shooting in Baghdad in which the company's security personnel killed 17 Iraqi civilians, lawyers in the case and government officials briefed on the matter said Monday.

The opening of the grand jury inquiry is a significant step in the case because it indicates that prosecutors believe that there is enough evidence of wrongdoing to warrant a formal criminal investigation.

Officials cautioned that the decision to begin a grand jury inquiry did not mean that prosecutors had decided to charge anyone with a crime in what they said was a legal

ly complex case. Some government lawyers have expressed misgivings about whether a federal law exists that would apply to the actions Blackwater employees are accused of committing.

The officials, who spoke on the condition of anonymity because they were discussing grand jury matters, would not say exactly how many subpoenas had been issued, but they said the subpoenas were mainly to Blackwater employees who were at the scene of the shooting but did not fire their weapons. The prosecutors are also seeking company records compiled at the time of the shooting as well as employee work histories and military service files.

The grand jury inquiry in Washington was first reported Monday by ABC News on the network's Web site.

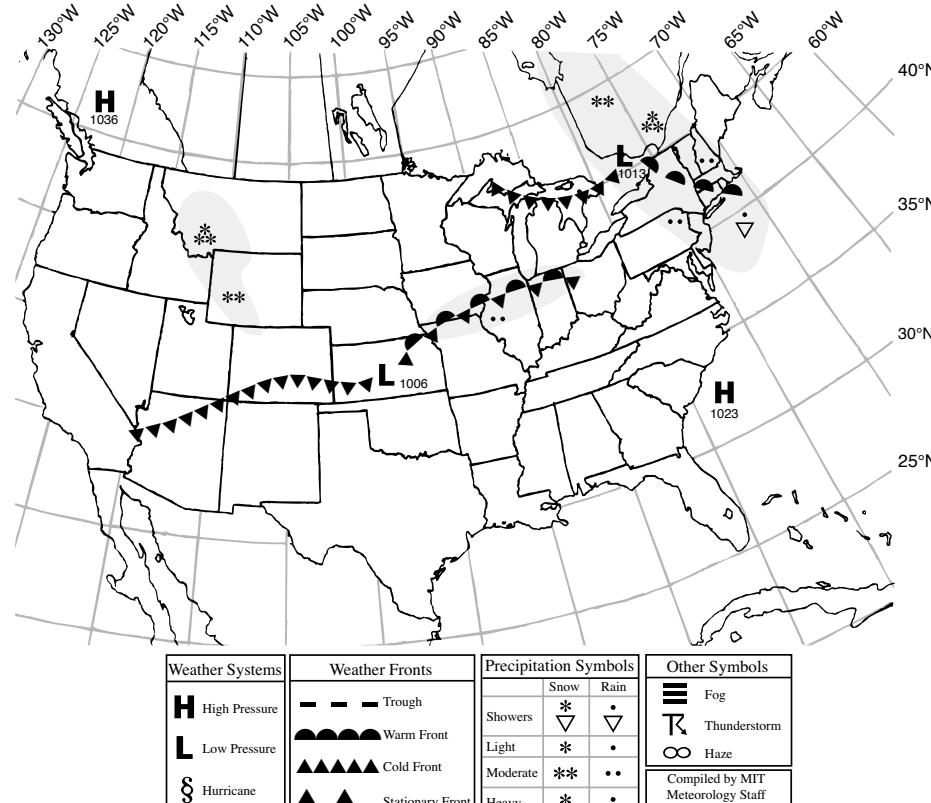
A spokesman for the Justice Department would not comment on whether prosecutors had convened a grand jury in the case. It was not known whether Attorney General Michael B. Mukasey approved the decision, but it would be unusual for prosecutors to take such a step in a high-profile case without advising the attorney general.

Blackwater's spokeswoman, Anne E. Tyrrell, said she could not confirm that a grand jury investigation was under way and that she would have no comment on any federal inquiry involving the company. She did say, however, that it would not be unexpected that federal prosecutors would convene a grand jury to support the FBI investigation.

"It should come as no surprise that this might happen when the FBI is investigating such a matter," she said.

WEATHER

Situation for Noon Eastern Standard Time, Tuesday, November 20, 2007



Samsung Scandal Worsens With Former Legal Aide's Accusation

By Choe Sang-Hun

THE NEW YORK TIMES

SEOUL, SOUTH KOREA

Samsung, which has vigorously denied bribery charges in a snowballing corruption scandal, sustained another blow to its image Monday when a former legal adviser to President Roh Moo-hyun said the company had once offered him a cash bribe.

The former aide, Lee Yong-chul, who also served as a presidential monitor against corruption, said the money — 5 million won (\$5,445) — was delivered to him in January 2004 as a holiday gift from a Samsung Electronics executive, but that he immediately returned it.

Before sending it back, Lee said, he took pictures of the cash package, which were released to the news media Monday.

"I was outraged by Samsung's brazenness, by its attempt to bribe a presidential aide in charge of fighting corruption," Lee said in a written statement released at a news conference by a civic organization. He did not attend the event.

James Chung, a spokesman for

Samsung Electronics, said, "We are trying to find out the facts around these allegations."

Samsung Electronics is the mainstay of the 59-subsidary Samsung conglomerate and a world leader in computer chips, flat-panel television screens and cell phones.

Lee's accusation appeared to support recent assertions by a former chief lawyer at Samsung, Kim Yong-chul, that the conglomerate had run a vast network that bribed officials, prosecutors, tax collectors, journalists and scholars on behalf of Samsung's chairman, Lee Kun-hee.

Prosecutors are investigating Kim's accusations, and political parties have introduced legislation that would establish an independent counsel.

Opposition political parties say an independent prosecutor is needed because Kim identified the president's new chief prosecutor, Lim Chai-jin, as one of many prosecutors to have received bribes from Samsung. Lim denied the assertion.

Roh's office dismissed the call

for an independent counsel as an election-year political maneuver. The South Korean presidential election is scheduled Dec. 19.

As the scandal expanded, the chairman, Lee Kun-hee, was absent Monday from a ceremony commemorating the 20th anniversary of the death of his father, Lee Byung-chul, Samsung's founder. Company officials cited a "serious cold and illness from fatigue."

Lee Yong-chul, the former presidential aide, now a partner at a law firm in Seoul, issued his statement and pictures through the National Movement to Unveil Illegal Activities by Samsung and Its Chairman, an organization that was started by civic groups after Kim's allegations were made public.

Calls to Lee's office were not returned Monday.

"This is proof that Samsung's bribery has reached not only prosecutors but the very core of political power, the Blue House," the group said at the news conference, referring to the South Korean presidential office. Roh's office called that assertion "pure speculation."

Pakistani Supreme Court Upholds Musharraf's Presidential Election

By Carlotta Gall

THE NEW YORK TIMES

ISLAMABAD, PAKISTAN

The newly formed Supreme Court of Pakistan, which was appointed after emergency rule was imposed two weeks ago, Monday dismissed the main outstanding challenges to Gen. Pervez Musharraf's election for another presidential term, almost certainly ensuring his confirmation as president later this week.

Ten judges were hearing the case Monday. Within three hours, they dismissed five of six challenges to Musharraf's candidacy.

"There were five petitions, they have all been dismissed," said the attorney general, Malik Abdul Qayyum. "There is only one left and that will be heard on Thursday," he was quoted by newswires as saying after the proceedings.

The sixth petition, which is not a direct challenge to Musharraf but a complaint to the Election Commission from a candidate who was eliminated from the presidential race, will be heard on Thursday. That is expected to be dismissed, too, paving the way for the court to confirm

Musharraf's election to another five year term.

Musharraf won the Oct. 6 presidential election, but the Supreme Court had ordered that the results not be officially confirmed until the court heard outstanding challenges by other candidates. The election was boycotted by opposition parties.

The opposition candidates and a representative of the country's lawyers' movement opposed the general's candidacy, arguing that he was not eligible to run for president while at the same time holding the post of army chief.

The powerful challenge that the previous Supreme Court represented to Musharraf was the main reason why, on Nov. 3, days before the court was due to rule, he introduced de facto martial law, suspending the constitution, dismissing the Supreme Court, and arresting the chief justice and other leading judges, a senior government aide has admitted.

After dismissing the chief justice and the previous Supreme Court, Musharraf appointed a new court of

11 judges who took an oath under the temporary Provisional Constitutional Order, which is in force under the emergency rule.

Only four judges from the previous Supreme Court agreed to take the oath and work in the new court. The court is now seen as pro-government, and a verdict in Musharraf's favor was widely expected.

In protest at what they say is the unconstitutional dismissal of the former Supreme Court, lawyers and bar associations have refused to appear before the current Supreme Court and others courts around the country.

Many of the lawyers themselves have been detained, including the president of the Supreme Court bar association, Aitzaz Ahsan, who was representing one of the candidates challenging Musharraf's election.

The opposition presidential candidate, Makhdoom Amin Fahim, who is the deputy leader of Benazir Bhutto's Pakistan Peoples Party, the country's main opposition party, withdrew a legal challenge he had put forward in protest at what he said was the illegality of the court.

Auto Insurance Rates in MA Drop 7.7 Percent After Switching to New System

By Bruce Mohl

THE BOSTON GLOBE

Massachusetts auto insurance premiums will drop an average of just under 8 percent in the first year of the state's new competitive insurance system, less than what some analysts had forecast would happen if regulators continued to set the rates.

State officials said the rates filed Monday for policies renewing April 1 would yield a reduction in the statewide average premium of approximately 7.7 percent. Massachusetts regulators under the current system had cut the statewide average premium for 2007 by 11.7 percent, lowering it to \$899.

The Division of Insurance will officially release the filings Tuesday, but company officials estimated that 70 to 80 percent of the state's drivers will probably see rate reductions, while about 20 to 30 percent will see their rates hold steady or increase by as much as 10 percent.

The state is switching to a competitive auto insurance system after 30 years in a bid to attract big national carriers, expand coverage options,

and drive down premiums, which are among the highest in the country.

The state's 19 existing companies introduced many new coverage options Monday, but no new carriers jumped into the market. Rates also fell, particularly for some drivers, but not as much as some had expected.

On a conference call with reporters Monday, Insurance Commissioner Nonnie S. Burnes initially declined to provide the statewide average premium number for next year, saying it was "not a reasonable comparison" under her new regulatory system of managed competition. The number has been used in past years to compare one year's rates to those of previous years.

She later called the Globe back and provided the number, but cautioned that it failed to take into account the many policy enhancements companies are beginning to offer.

"This is the number, but it's not the story," she said.

Burnes estimated that premiums for 46 percent of the cars insured by the state's five biggest carriers,

or about 1.2 million vehicles, would drop by 10 percent or more.

Massachusetts currently is the only state in the nation where regulators set all auto insurance rates. The Patrick administration is moving to a system where companies can implement their own rate plans, subject to regulatory approval. Rate increases, at least initially, are capped at 10 percent.

Monday's filings were accompanied by a flurry of news releases as companies pointed to steep discounts and policy enhancements they plan to offer drivers they consider the best risks.

Companies introduced discounts for students with good grades, for customers who continue to insure their vehicles with the same firm, or for those who also purchase an insurance policy for a home, a condo, or an apartment.

Companies also introduced policies that wouldn't penalize drivers for a rare accident or that cut in half from six to three years the time an accident would remain on a customer's driving record.

Stagehands and Producers Break Off Talks

By Campbell Robertson

THE NEW YORK TIMES

NEW YORK

The latest round of talks between the producers' league and the stagehands union broke down Sunday night, leaving no end in sight for the strike that has already darkened most of Broadway for nine days. Soon after the breakdown, the League of American Theaters and Producers announced it was canceling performances of the 27 shows affected by the strike through next Sunday.

No further talks have been scheduled.

The negotiations, which had gone on for more than 13 hours on Saturday and 11 hours on Sunday, came to a halt a little after 9 p.m..

Bruce Cohen, a spokesman for Local One, the stagehands' union, said in a statement that "producers informed Local One that what Local One offered was not good enough and they left."

Charlotte St. Martin, the executive director of the league, said: "We presented a comprehensive proposal that responded to the union's concerns about loss of jobs and earnings and attempted to address our need for some flexibilities in running our business. The union rejected our effort to compromise and continues to require use to hire more people than we need."

The decision was made to cancel the performances, she said, so that travelers coming to town for the Thanksgiving weekend could plan accordingly.

Baby Shower in Brooklyn Ends in Deadly Gunfire

By Fernanda Santos

THE NEW YORK TIMES

NEW YORK

A manager at a Brooklyn banquet hall shot three people outside the hall early Sunday, one of them fatally, and was then shot by one of two men who intervened, the police said. The men were arrested moments later, after a police sergeant fired at them twice during a foot chase, striking one of the men in the leg, the authorities said.

The chaotic events began to unfold just before 1 a.m. during a rambunctious baby shower, when a fight erupted in the hall, named El Barnardillo, at 2833 Atlantic Avenue in East New York, the police said.

Witnesses told the police that the manager, Omar Marquez, tried to clear the premises, but when some people refused to leave, he pulled a gun from his waistband and fired a single shot into the air. It was not clear Sunday night whether Marquez was licensed to carry the weapon.

Soon, Marquez, 26, who lives on Pitkin Avenue seven blocks from the banquet hall, found himself surrounded by people at the party, the witnesses said. He was pushed out of the hall through a back door but managed to re-enter through the basement and emerge by the front entrance, where he opened fire, wounding three people, the police said.

One of those wounded — Theodore Williams, 21, who was shot once in the head — died upon arrival at Kings County Hospital Center, the police said. The other two were identified as Jason Garcia, 17, who was hit in the chest, and Darren Francis, 20, who was grazed in the head. Both were taken to Brookdale University Hospital and Medical Center. Francis was listed in stable condition Sunday night; no information was available on Garcia's condition, according to the police.

Separatist Rebels Accuse Ethiopia's Military

By Jeffrey Gettleman

THE NEW YORK TIMES

NAIROBI, KENYA

Separatist rebels fighting in the Ogaden region of Ethiopia on Monday accused the government of strafing nomads in recent days at a watering hole with helicopter gunships, killing up to a dozen civilians.

The government promptly denied the claims of attacks, which would be a deepening of a conflict that until now has been confined largely to hit-and-run attacks between rebel soldiers and Ethiopian ground forces. But Western diplomats in Ethiopia said that the government had indeed used assault helicopters and that the war in the Ogaden was intensifying.

Abdirahman Mahdi, a spokesman for the Ogaden National Liberation Front, the leading rebel group in the area, said government helicopters attacked the nomads, who were noncombatants, near the village of Gurdumi several times since Thursday. Abdirahman, who is based in London, said he had spoken to field commanders who provided detailed information, including the names of several nomads killed next to their camels. He said the Ethiopians apparently attacked the watering hole because rebel soldiers had recently killed several government troops in an ambush nearby.

"The Ethiopians are turning to air power because they can't face us on the ground," Abdirahman said.

Tending an Ailing Elder Exacts a Financial Toll

By Jane Gross

THE NEW YORK TIMES

The out-of-pocket cost of caring for an aging parent or spouse averages about \$5,500 a year, according to the nation's first in-depth study of such expenses, a sum that is more than double previous estimates and more than the average American household spends annually on health care and entertainment combined.

Family members responsible for ailing loved ones provide not only "hands on" care but often reach into their own pockets to pay for many other expenses of care recipients, including groceries, household goods, drugs, medical co-payments and transportation. That nudges the average cost of providing long-distance care to \$8,728 a year.

These caregivers, spending on average 10 percent of their household income, manage the financial burden by taking out loans, skipping vacations, dipping into savings or ignoring their own health care.

These findings and others, to be released Monday, came from a telephone survey of 1,000 adults caring for someone over age 50 who needs help with activities like bathing, using the toilet, preparing meals, shopping or managing finances. It is the first detailed look at out-of-pocket spending among the estimated 34 million Americans providing care for older family members or friends and builds on a 2004 study.

OPINION

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In Defense of Free Speech

In his response to my letter ("Watson's Remarks Unacceptable," Nov. 9, 2007), Justin M. Cannon '08 suggests that I defended James Watson's comments on race; I did not, although, in using them to frame my argument, I may have conveyed that impression.

I would find Watson's comments alarming if he intended to run for public office. Seeing, however, that he is a biologist, I am far more interested in the seminal contributions that he has made to the field of biology than in his political judgments. Similarly, I would only make note of the arguments of a flat earth theorist if he or she sought a position within NASA.

Were Watson's fate to inaugurate a precedent — that is, if we refracted every individual's intellectual contributions through the prism of his or her political judgments — I suspect that the unemployment rate would soar. All of

us harbor beliefs that others would consider to be beyond the pale of acceptable discourse; where the vast majority of us maintain our silence, Watson was foolish enough to break his. However, racism (or, for that matter, any other such belief) that is declared is no more deserving of scorn than that which is suppressed.

Having addressed his first point, albeit an implicit one, I feel compelled to address his larger argument about free speech — more precisely, the boundaries that he believes should circumscribe it. Cannon argues that "some topics rightfully deserve to be cast aside if not handled responsibly." What are those topics? Who decides what they are? Most importantly, by what standards are they cast aside? The answers to these questions are intrinsically fluid. Topics that could never have been discussed in centuries past are staples of modern discourse, and vice versa.

There are, broadly, two manners of resolving the aforementioned questions. The first, full freedom, permits individuals to challenge all

received truths and disseminate any messages. It entails the risk that falsehoods will be circulated and the comparatively trivial possibility that devil's advocates will obstruct society's move towards enlightenment in their desire to be irritants. However, such prospects should be of little concern to individuals who maintain faith in their own intelligence and resourcefulness. The second route, political correctness, ensures that no one's sensibilities are offended. It entails the far greater risk, however, of diluting discussion until such a point as it is bereft of any meaning or interest. I submit that this latter prospect is far more alarming.

Lastly, Cannon's use of the phrase "taboo against questioning" is curious. Questioning is to the intellectual what air is to humans. It remains the only known way to advance society's progress. A sincere belief in free speech yields the modest conclusion that all presumptions of fact, no matter their social standing, should be equally open to interrogation.

Ali S. Wyne '08



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ARTS

THEATER REVIEW

Three Nights of One-Act Plays Delight Audience

Vice Play' Headlines Dramashop's Student-Written, Student-Produced Plays

By Caroline Huang

STAFF WRITER

One Acts 2007

MIT Dramashop
Kresge Little Theatre
Nov. 8-10, 8 p.m.

Square One

Written by Justine Spangler (Emerson)
Directed by Usman O. Akeju '08
Starring: Gabrielle Abousleman (Wellesley),
Kelly A. Thomas '08, and Rachel Nagin
(Wellesley)

Incendiary Evidence

Written by Rony D. Kubat G
Directed by Emilie Slaby
Starring: Jihoo Lee '08, Amelia R. Browning
'11, and Paul D. Welle '11

Vice Play

Written by Sally E. Peach '09
Directed by Danbee Kim '09
Starring: Sean P. Faulk '11, Nicolina A.
Akraboff '08, Monica F. Kahn '10, and Alaina
Hourigan

Happily Ever After

Written by Shelly Mamber '08
Directed by Yuri A. Podpaly G
Starring: Yekaterina Radul '11 and Erika L.
Bakse '08

Adult confusion gave way to youthful exuberance, followed by acknowledged vices and finishing with emerging disillusionment, in Dramashop's annual student-written, student-directed One Acts. Even with a minimalist approach to scenery and costumes, the actors and directors created a memorable atmosphere that was at times ethereal, at others bizarre, and always mysterious.

The hit of the night was "Vice Play," written by Sally E. Peach '09 and directed by Danbee Kim '09 (also a *Tech* cartoonist), which personified nicotine, caffeine, alcohol, and marijuana. The play alternated between crackling intensity and casual conversation, throwing out declarations about human nature. "I tend to believe that some of the best things in life are toxic. They are practically sacred because

we can only consume them in small quantities before they consume us," Marijuana said while making a rare meaningful comment.

Sean P. Faulk '11 played Nicotine perfectly, his calm demeanor broken up by occasional wild outbursts. Particularly impressive were Faulk's monologues and his interactions with Alaina Hourigan, who convincingly portrayed a charming and enabling Alcohol.

Monica F. Kahn '10 was perfect as a dazed Marijuana, drawing out words and staring dreamily at the audience. Nicolina A. Akraboff '08 was not as memorable as Caffeine, but that was largely because her biggest scene was dominated by Nicotine's split personality.

The other standout play was "Square One," written by Emerson student Justine Spangler and directed by Usman O. Akeju '08, supposedly based on a true story of a supernatural event that the participants could not recall and its aftermath. The series of monologues, delivered by Kelly A. Thomas '08 and Wellesley students Gabrielle Abousleman and Rachel Nagin, were accented by a stark set of black-and-white pictures projected onto a screen in the background.

Abousleman delivered her lines with conviction but seemed to overplay the words sometimes. Nagin was particularly adept at portraying a 17-year-old boy angry at the world, snarling and swearing throughout her speech. Thomas used an appropriately bewildered tone in giving her monologue, highlighting her speech with frustrated motions as she moved around the stage.

The second play, "Incendiary Evidence," featured two parts and sandwiched "Vice Play." The piece, which is being "workshopped" through Dramashop for a later performance, began with three high school kids attempting to put together a rocket. The script, written by Rony D. Kubat G, was heavily improvised under director Emilie Slaby's watch.

The first part was amusing, as the actors — Jihoo Lee '08, Amelia R. Browning '11, and Paul D. Welle '11 — maneuvered around the stage and around the theater, throwing around nerdy jokes and running around crazily.

However, despite being the shortest play of the evening, the second part managed to confuse much of the audience because it lacked a plot (or much direction at all, really). Despite



ANDREA ROBLES—THE TECH

Monica F. Kahn '10 (Marijuana) is the voice of reason of the play with random burst of deep thoughts, among all the nonsense. "Vice Play," written by Sally E. Peach '09 and directed by Danbee Kim '09 (also a *Tech* cartoonist) chronicles four common vices — nicotine, caffeine, alcohol, and marijuana — as they attempt to get a deeper understanding of their individual worlds. The MIT Dramashop presented four One Acts in early November.

that flaw, the actors acquitted themselves well.

The ironically-titled "Happily Ever After" featured Erika L. Bakse '08 as a feminist Rapunzel whose famous locks were wrapped into a tight bun. Rapunzel spent the bulk of the play trying to convince an acquiescent Cinderella, played by Yekaterina Radul '11, that living "happily ever after" was just a delusion. This one-act was written by Shelly Mamber '08 and directed by Yuri A. Podpaly G.

The premise of a fractured fairy tale is a tried and true one, to be sure, but "Happily Ever After" had several places where it looked like Rapunzel and Cinderella would end their conversation and thus the play. Instead, the discussion resumed after somewhat awkward, contrived comments.

As a result, the many clever lines — in response to Cinderella's awkward small talk about

Rapunzel's hair, Rapunzel said, "Oh, it grew to its full length again last year, but I donated it to Locks of Love. I'm waiting for a couple more yards before I donate again." — lost much of their impact, which was a shame.

At the conclusion of the four plays, the actors, playwrights, and directors assembled onstage to answer questions about acting, writing, directing, and occasionally life in general. Playwright Peach was the recipient of the latter category: she was asked to identify her personal vice.

In response, Peach said, "Vices don't matter that much; it's just a matter of what you do. People all end up in the same place; it's just a matter of how fast you get there," and coyly declined to name hers.

Later, Hourigan fielded a question about how she portrayed Alcohol so well, to which she drolly replied, "Method acting."

MOVIE REVIEW ★★

'Cholera' Falls Flat

No Chemistry in 'Love in the Time of Cholera' Film Adaptation

By Mei-Hsin Cheng

STAFF WRITER

Love in the Time of Cholera
Directed by Mike Newell
Written by Ronald Harwood, based on the novel by Gabriel García Márquez
Starring: Javier Bardem, Giovanna Mezzogiorno, and Benjamin Bratt
Rated R
Now Playing

Love in the Time of Cholera" is a textbook example of why it is difficult to adapt books into movies. The trailer for "Love in the Time of Cholera" makes the movie look like a generic "epic romance." While the trailer is a pretty accurate representation of the film, the actual movie is far less epic and far more vulgar with copious amounts of nudity and sexual innuendos.

"Love in the Time of Cholera," based on Gabriel García Márquez's novel, follows the lives

of Florentino Ariza (played by Javier Bardem) and Fermina Urbino (Giovanna Mezzogiorno), the love of Florentino's life. As a young clerk, Florentino falls in love with Fermina at first sight, and the two young lovers proceed to exchange letters with each other. Fermina's father discovers the clandestine courtship and separates the lovers by taking Fermina away.

When Fermina returns, she spurns Florentino's advances and instead marries the suave Dr. Juvenal Urbino (Benjamin Bratt). Florentino, however, does not lose hope and decides to wait until Juvenal's death to win Fermina over. Will true love prevail? How will Florentino deal with the agony of seeing Fermina married to another man? Why does Fermina marry the doctor? Is

this beginning to sound too much like a bad soap opera narration?

It is difficult to pinpoint precisely how and why "Cholera" didn't quite work. None of the performances were particularly memorable.

Many of the characters' motivations, beliefs, and actions were rather unbelievable as portrayed in the movie. We are led to believe that Florentino, a mousy, slouched-over man with a bushy, unbecoming mustache, is able to seduce so many women simply because his mournful disposition

(as a result of his love for Fermina) makes him appear sympathetic and harmless. Bardem's Florentino comes off as constantly moping and it amazes me that women were seduced, instead of frightened off by the character.

Additionally, the chemistry between Fermina and Florentino is virtually non-existent, perhaps because their relationship is primarily based on their letters to each other. And the only letters that we see in the movie are hackneyed and generic. The chemistry between Fermina and Juvenal fares slightly better, though at the end of the movie, the nature of their love and relationship is still unclear. Fermina frequently complains that their relationship is full of difficulties. Though we do see conflicts, they are either quickly resolved or completely abandoned and ignored.

In terms of continuity, Mezzogiorno's Fermina ages a la Star Wars's] Padme Amidala. Fermina looks around 20 or 30 years old through most of the film, while Bardem's Florentino ages exponentially and dons an unpleasant mustache for over half of the movie.

Fermina describes Florentino as a shadow, and "Love in the Time of Cholera" is just that — a shadow of a potentially great film.

Gobble Gobble!



Have a great Thanksgiving!
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CAMPUS LIFE

Squid vs. Whale

Happy Gobble Day

By Charles Lin
STAFF COLUMNIST

Thanksgiving day is a very dangerous day. With hazards lurking around every corner, preparation is the key. Take these tips to heart and enjoy a stress-free turkey day.

Problem: As a token of your parent's respect (or lack thereof), you've been put in charge of the kiddie table.

Solution: Even a four-year-old can pronounce "pset." Put those tots to work! And if they keep asking questions about why you're so depressed and stressed out all the time, introduce them to a certain five-letter acronym.

Problem: All your parents/relatives wish you had gone to Yale/Harvard/Princeton instead.

Solution: Well, so does Susan Hockfield!

Problem: The Turkey is bone dry!

Solution: You can drown your sorrows in gravy, but this recipe has been known to save dry turkey in a pinch. Slice up some turkey, top with red onions, avocado, Swiss cheese, and a dash of balsamic. Toast on some sourdough and top with alfalfa sprouts.

Problem: These people keep on trying to stuff me with food!! I've never been so full in my life.

Solution: Clearly you've never experienced the hunger of being a graduate student. An infinite supply of free food? Please savor the moment for all of us in the trenches. You never know, one day, you too might be scavenging outside seminars for scraps of fruit and cheese.

Problem: The black sheep of the family. There's always that one family member who just doesn't conform, isn't interested in country clubs or that cruise to Alaska your relatives have always wanted to take.

Solution: As a black sheep, the traditional holiday strategy has been a variation of the Bush doctrine of preemption; go after them before they go after you. But is that really worth it?

Rants & Raves

Despite my limited experience with Dunkin' Donuts, one thing has become apparent throughout the course of this semester: the employees staffing the MIT Dunkin' Donuts located in the MIT Stratton Student Center simply cannot perform the basic functions their jobs require.

Case in point:

¶ On Nov. 14, I order a large coffee, black with three Splendas.

¶ The employee at the cash register yells out my order to the two other employees standing five feet away from her directly to the left.

¶ Approximately 1.5 minutes passes with no sign of my coffee order. The instructions are repeated (with yelling) by cash register employee.

¶ Approximately 30 seconds later my coffee is produced.

¶ However, the following problems exist: a) I receive an extra large coffee; b) it contains no Splenda.

¶ Moments before the coffee is passed to me, the cash register employee realizes the discrepancies and again yells at the other employee.

¶ The coffee is then given to me, after far too long a wait.

¶ Although I did receive an extra large coffee for the price of a large, this is not necessarily a positive outcome: a) an extra large coffee is precarious to hold making my walk back to Edgerton that much more dangerous; b) the crucial Splenda/coffee ratio has been reduced (given the extra coffee) thus reducing my enjoyment exponentially.

My solution:

¶ Bipodal animatrons to replace the Dunkin' Donuts employees.

¶ Capable of computing complex tasks, storing multiple orders, and potentially doing your quantum mechanics pset, these robots provide the best solution.

¶ I believe MIT is the perfect location to debut this new technology which will eventually replace all Dunkin' Donuts employees and then the rest of the fast food industry.

¶ This is the world I want to live in.

—Agustin Mohedas G

Will pointing out that Uncle Larry has gained another 10 pounds this year really solve anything? Instead, I say, take it to the extreme, push the envelope. Get so far out there, ba ba black sheep, that they won't even know what to say. I recommend joining a cult. Either pretend to or actually do in real life. If what Aunt Judith says is true, you need some direction in your life. At least cults offer structure, schedules, and uniforms.

For the non black sheep, instead of pointing out the flaws of your wayward relative, get into the holiday spirit and think back to a happier time. At one point all black sheep were part of the flock, even if that point ended minutes after birth. Regale your crowd with stories from those

*The black sheep of the family.
There's always that one
family member who just
doesn't conform.*

times instead!

Problem: The Unhinged Relative. This relative has a penchant for brandy and an even greater knack for disruption, ridicule, and general embarrassment.

Solution: It's best to nip this one in the bud. When making the hard cider, first pour the brandy in a pan and flame it a la bananas foster. This will remove the alcohol but not the taste of brandy. If your unhinged relative can sniff out a weak drink, well then, I wish you all the luck in the world.

Problem: The boastful relative. An extra big bonus this year, a letter of acceptance into Yale Law, dating the head cheerleader. These are all indications of the bigheaded relative. Symptoms

include boasting, telling everyone how important he or she is, and making you feel inferior. The prognosis is grim, especially when the counter to "So what do you do all day?" is "I toil at physics."

Solution: Put the party back into perspective. If there was ever a time to bust out the refugees-in-Africa card during Thanksgiving dinner, this is it. Everyone should be grateful of how lucky they are, new bonus be damned.

Problem: The Thanksgiving talent show. Parents will pit their youngsters up against once another to determine, once and for all, whose child reigns supreme. Extraordinarily true in Asian families. Thanks, Mom.

Solution: There are several options here. You could grin and bear it, try your best, and rue the day you agreed to take piano lessons. Or, you could totally bomb the talent show and never be asked to perform again. Unfortunately, as a consequence of this, your parents will make you practice that much harder. There is a third option: sabotage. Play an instrument? Oh no, a string broke. Are you a painter? I left my paintings at school! Are you a singer? I have laryngitis!

Problem: OMG, I have to spend four days with these people!!!!

Solution: Hey sunshine, they have to spend four days with you too. Just try to remember, it's family and you all have the same roots. They embarrass you 'cause they love you. If you saw your uncle Terry dressed up in that cute little Easter sailor suit when he was a kid, you'd embarrass him too. You should be thankful you get to see them a few days a year (and not one minute more!). After all, it is Thanksgiving.

Okay, okay, if you're still cursing under your breath, when you get back to MIT, start working on a genetically engineered turkey with 10 times the tryptophan. Nothing says happy turkey day like everyone falling asleep together in the living room.

Brouhaha Rhythm Conspiracy Theory

By Michael T. Lin
STAFF COLUMNIST

Paranoia can be very unattractive. I say this as one who once watched "Survivorman" to prepare for a trip to a mountain resort, worries about incoming meteorites when stargazing, and brings rope to the circus to fashion into a makeshift whip in case something furry with sharp, pointy teeth breaks loose. But this time, I'm sure I'm on to something. Don't look now, but I think the powers that be — the administration — are out to sabotage my grades.

Most conspiracy theories suffer from a chronic lack of proof, supported only by convincingly presented circumstantial pseudoevidence. Well, you know how we frosh-out-of-high-school hate to buck the trend, so in that respect, my conspiracy theory is much the same way. Still, if you hear me out, I think you'll soon see things from my point of view. If not, I suppose I'll have to present it in a way MIT students will find more believable, which doesn't bode well for my savings account. Ad space in the *Daily Prophet* doesn't come cheap, last I heard.

As corroboration for my theory, I offer first the obscene number of events and activities up for the attending. When one gets together after another promises delicious pastries or rampant video gaming marathons, my freshman lack of willpower and craving for social interaction (and munchies) can only succumb. It was cunning of them to whet my appetite with the onslaught of entertainment during Campus Preview Weekend, during Orientation, during fraternity rush. Then I, like the dupe I am, played right into their sinister clutches. Those sadists.

When those henchpeople of the administration, the upperclassmen, are in on the subterfuge, we younglings are virtually helpless in the face of the imperial march. Fundraisers and charity events, operating under the guise of philanthropy, tug on our heartstrings harder than watching Han Solo enter a carbonite jacuzzi. Emotionally wearied, what passion do I have left with which to chase down those C's I never knew I'd be proud to get?

In a related vein, the upperclassmen don't need to receive orders from their masters among the higher-ups to wreak their own brand of havoc with my freshman mind. "Don't go insane your first semester," they said. "Relax a bit, you're on Pass/No Record, it's your time to adapt." How clever of them, fomenting the delusion that adaptation to the MIT lifestyle is as easy as it sounds. I'd bet my autographed copy of "Conspiracies for Dummies" by Ariel Fiftee-Wong (not to be found in any bookstore — Bigfoot has sole publication rights) that the upperclassmen knew full well how complacent I would become as a result of their so-called guidance.

I imagine they sat around a conference table in an underground bunker, cackling to themselves in malicious glee. I suspect they plotted exactly how innocent frosh such as I, with the right nudging, would naively believe that we'd be able to recover from the carefree nosedive of Pass/No Record just in time to slam on the afterburners of study habits and glide right into a letter-graded flight plan. Well, fear not, compatriots! I'm on to their little game. No, I will not kick back and enjoy my first semester, like you juniors and seniors so faux-nurturingly advised me. Just you watch as I self-flagellate my way to an A average and a nervous breakdown. How do you like them apples?

Of course, the more astute among you may ask what motive the administration and their lackeys could possibly have for this covert network of mayhem. Truth be told, I really couldn't say. Perhaps they're doing it to entertain themselves. Perhaps they're indoctrinating us through torture to inflict the same troubles by the same methods upon our successors. Perhaps it's part of a centuries-old pact between the Knights Templar, the Illuminati, and the Freemasons (because what's a conspiracy without a secret society?) whereby every night, they try to take over the world!

Or not. I'm actually still trying to figure out the why and wherefore myself. If I don't get black-bagged first, I'll keep you posted. Now if you'll excuse me, it's 2 a.m., the perfect time to break out the telescope and see if the human footprints on the moon are actually there. Have a happy Thanksgiving ... and don't drink the fluoridated water. It makes your teeth detectable by spy satellite. Really.

Gadget Review

Logitech NuLOOQ Navigator Useful for Web

By Kailas Narendran
STAFF COLUMNIST

Pro:

Saves you time and phalange life by reducing strain for scrolling function

Very solid feel and construction, flexible configuration

Con:

Yet another wired lump on the desk, even though it's small

The lowdown

The Logitech NuLOOQ is an innovative product from one of my favorite computer accessory companies. It has a compact user interface (a "ring" and multifunction buttons) that lets you simplify some of the movements and inputs that the mouse and keyboard were never really meant to handle. It greatly simplifies the additional degrees of freedom that many applications today require and use on a regular basis.

No longer your mother's Web

Well, in fact, your mom probably didn't have a World Wide Web growing up. But, really, it's more than that. There has seen a steady divergence between the amount of information we have and the ways we have to browse it. As our information has grown to span continents and exceed the number of dimensions we can comprehend as humans, we still type on a keyboard that was designed to keep typewriters from jamming, and interpret multidimensional information projected onto a two-dimensional plane.

The bump, delivered

The NuLOOQ is a fresh breath of the unconventional, providing a unique interface for ev-



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Through My Eyes

Culture Shock

By Christina Kang

STAFF COLUMNIST

Being dropped in an economically, socially, politically, developmentally, and linguistically foreign country can be a major culture shock. It seems almost essential that all individuals visiting a new country for the first time should study the language, culture, history, and current events of the country prior to their visit. Students traveling should take the initiative or even be required to take courses pertaining to the country.

Of course, you'll still be able to survive and work in an environment, even if you are completely ignorant of the culture and language, but your experiences and your contributions will be significantly compromised.

Consider the reverse situation when foreigners come to work in the United States. If they can't speak English and are ignorant of national issues, they are often scorned and looked down upon. Now imagine that they say they are trying to help you. Would you really believe that they could understand your life, your problems, and your point of view? Would you trust them and confide in them to help you find the best way to improve your living condi-

tions? Who are they, what do they know, and how can they ever understand what *you* need?

Translators can be of immense help, but there is always translator's bias and a loss of intimacy. Using a translator can be very awkward and it took me a while to get used to looking at the person I was speaking to instead of the translator. I never felt fully connected to the community members through speech. Body language and eye contact can cross many language barriers, helping two strangers connect on an emotional level, but it is frustrating when opinions and potential solutions cannot be discussed directly.

I'm certainly guilty of ignorance. This summer, I went to many countries without knowing the language or being very knowledgeable about the countries' current issues. Even as a journalist, this resulted in greater culture shock and frustration, and when I was discussing potential solutions with bilingual community members, I had a lot to take in and learn.

The culture shock from America to India was big for me, but the culture shock from India to Kenya, was of no small voltage, either. India made a profound impact on me because it was my first experience in a developing

country. The combination of the poverty, underdevelopment, and unbearable heat was not what I had expected from a (according to all the recent news articles and books) technologically rising country. Moving on to Nairobi, Kenya, on the other hand, was a relatively pleasant surprise.

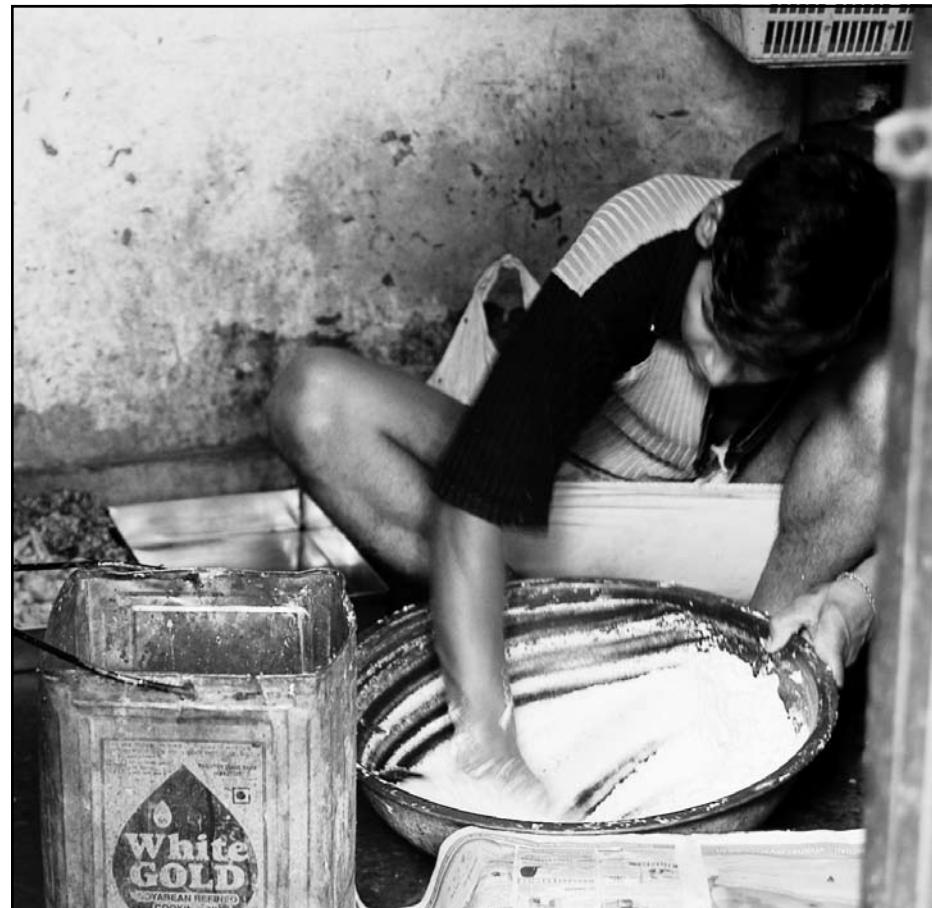
Granted I was not permitted to enter the worst slums in Nairobi by my peers and other community members, due to the danger of a foreign girl walking around in the most desperate parts of a city with an unemployment rate of 50 percent (often not by choice). The Kenyan communities I worked in were one economic class above those in extreme poverty. However, these slums seemed to be in better shape than comparable Indian sections. This was surprising to me, since I had heard of India as a rising nation and Africa as an almost entirely destitute continent. Further descriptions of the extreme differences between India and Kenya will be presented next week.

You can see some of my photographs from this summer in print starting Monday, Nov. 26 in the Weisner Gallery, located on the second floor of the Student Center.



CHRISTINA KANG—THE TECH

Women and children spend the daylight hours in the small alleyways between their one-room homes outside of Delhi, India.



CHRISTINA KANG—THE TECH

A community member in the camps outside Delhi, India prepares food in a small room.



CHRISTINA KANG—THE TECH

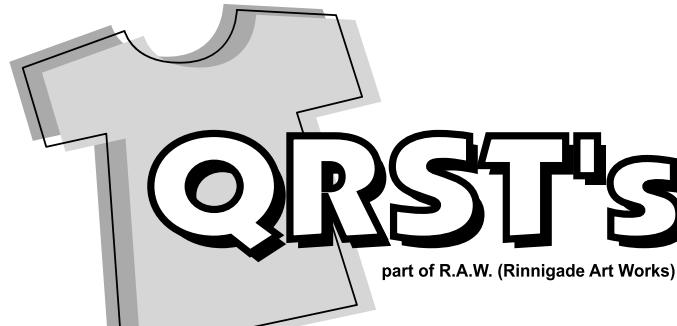
Two teenage boys play a board game in the alleyway between their homes outside of Delhi, India.

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*I've just read a paper
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Exceptionally Simple
Theory of Everything",
by this dude Garrett
Lisi, and I love it!*

The guy uses E8 geometry to 'connect' the standard model of quantum physics with general relativity. I'm diggin' it! The guy comes up with a periodic table for elementary particles, and predicts 20 new particles...

And that makes you happy because...

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You don't need a unified theory for that. Check out this centerfold.

*Now we're talking!
Who's that?*

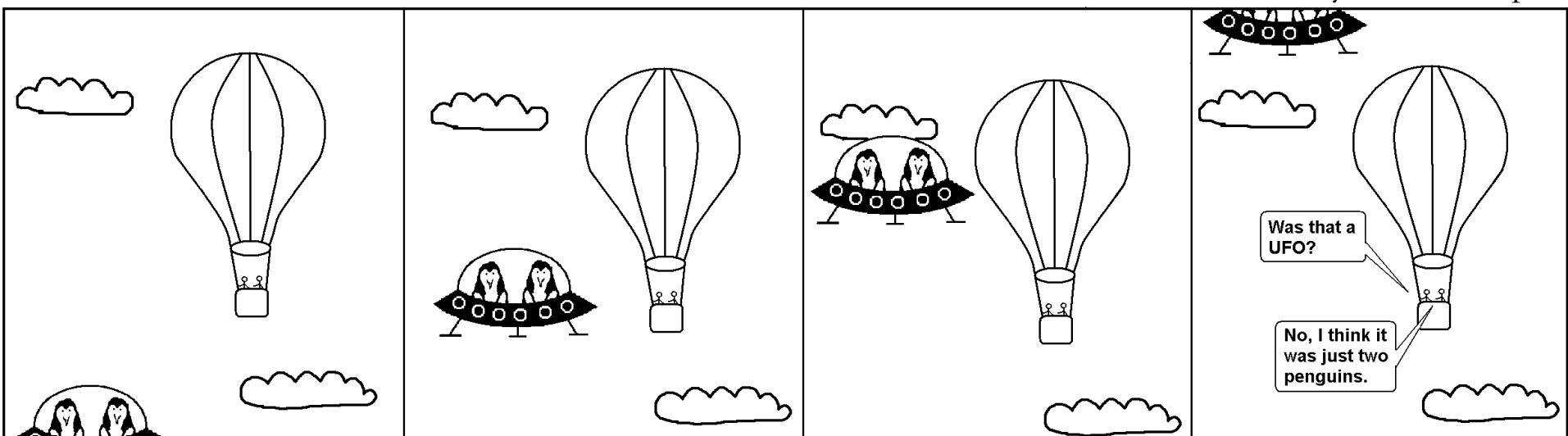
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OVNI

by Roxana Safipour



Crossword Puzzle

Solution- page 13

ACROSS

ACROSS

- 1 Is a match
- 5 Biggest Bear?
- 9 __ the Hutt
- 14 "Dies __"
- 15 Way of old Rome
- 16 Pungent
- 17 Hindu music
- 18 Bread unit
- 19 Total disorder
- 20 Relative of a parenthesis
- 23 Easy two-pointer
- 24 Mexicali Mrs.
- 25 New Deal agcy.
- 28 Investor's concern
- 33 Wharton deg.
- 36 Triumphed
- 37 City on the Po
- 38 Crafty person?
- 41 Who knows?
- 43 Hangman's knot
- 44 Whammy
- 45 Theme of this puzzle
- 46 Rolling Stones classic
- 51 Inventor Whitney
- 52 Knight's honorific
- 53 Pleasing view
- 57 Numismatist
- 62 Natural talent
- 64 Bologna greeting
- 65 Weapons inspecto Blix
- 66 Two below par
- 67 Reversal command
- 68 Cogito — sum
- 69 Milk by-products
- 70 Quick look
- 71 Getz or Kenton

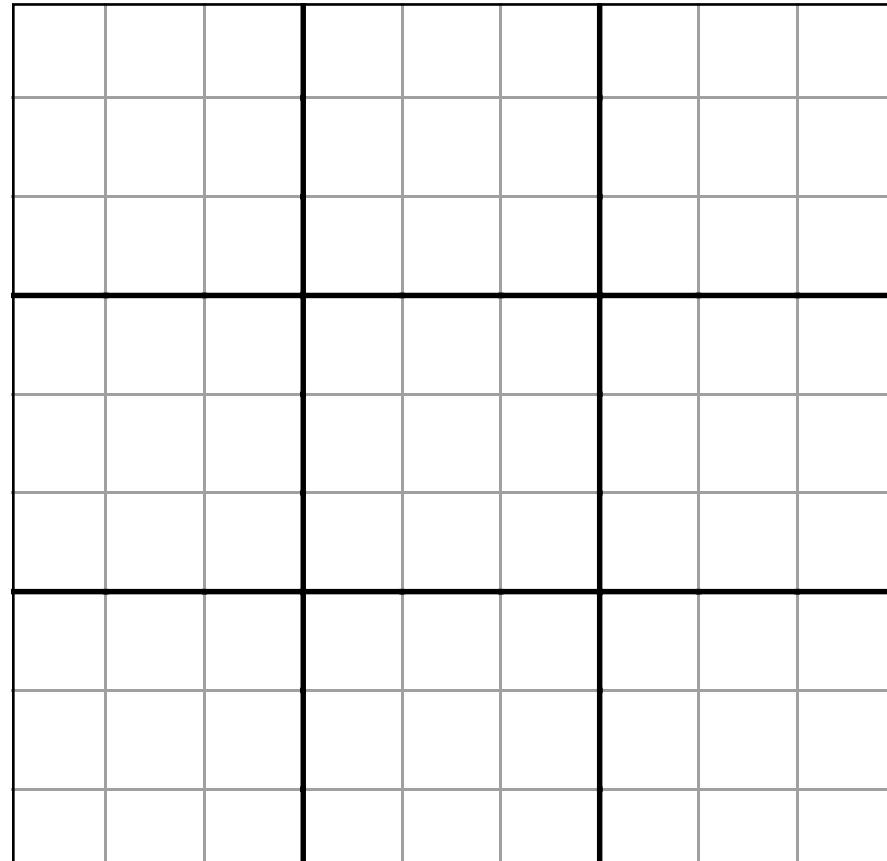
A crossword puzzle grid consisting of a 13x13 grid of squares. The grid contains several blacked-out areas representing empty space or non-letter content. Numerical labels are placed outside the grid to indicate the length of the words, starting from 1 at the top-left and ending at 71 at the bottom-right. The labels are as follows:

- Row 1: 1, 2, 3, 4
- Row 2: 14
- Row 3: 17
- Row 4: 20
- Row 5: 23
- Row 6: 28, 29, 30
- Row 7: 33, 34, 35, 36
- Row 8: 38, 39, 40
- Row 9: 43
- Row 10: 46
- Row 11: 51, 52
- Row 12: 57, 58, 59
- Row 13: 62, 63
- Row 14: 66
- Row 15: 69
- Column 1: 5, 15, 18, 21, 24, 31, 36, 41, 44, 47, 50, 53, 60, 64, 67, 70, 71
- Column 2: 6, 16, 19, 22, 25, 32, 37, 42, 45, 48, 55, 56, 61, 65, 68
- Column 3: 7, 8, 20, 23, 26, 27, 30, 33, 34, 35, 38, 43, 46, 51, 57, 63, 66, 69
- Column 4: 9, 10, 11, 12, 13, 25, 31, 37, 41, 45, 49, 50, 53, 60, 64, 67, 71

2	Baghdad man	21	Geneticist's study	41	Sound unit
3	Prepare to run after the catch	22	Mercury or Saturn	42	Phone no. add-on
4	Surfer's inhalations	26	_ ballerina	44	Female lead
5	Heap	27	Building wing	47	45-A ID
6	Shortest step, for short	29	Former PanAm rival	48	Esophageal spasm
7	Former Canadian PM	30	Long time, geologically	49	Eden woman
8	Kennel protest	31	LAX info	50	Wealth
9	Trunk item	32	Boy king	54	Beginning
10	Liniment target	33	Canine malady	55	Friendly Islands
11	German sausage	34	Oven setting	56	Burning crime
12	Brief life story	35	Post-Manhattan Project era	58	Pinguid
13	Classified	39	Belief system	59	Ticks off
		40	Go out with	60	Load cargo
				61	Glimpse
				62	Not many
				63	Well, -di-dah!

su | do | ku

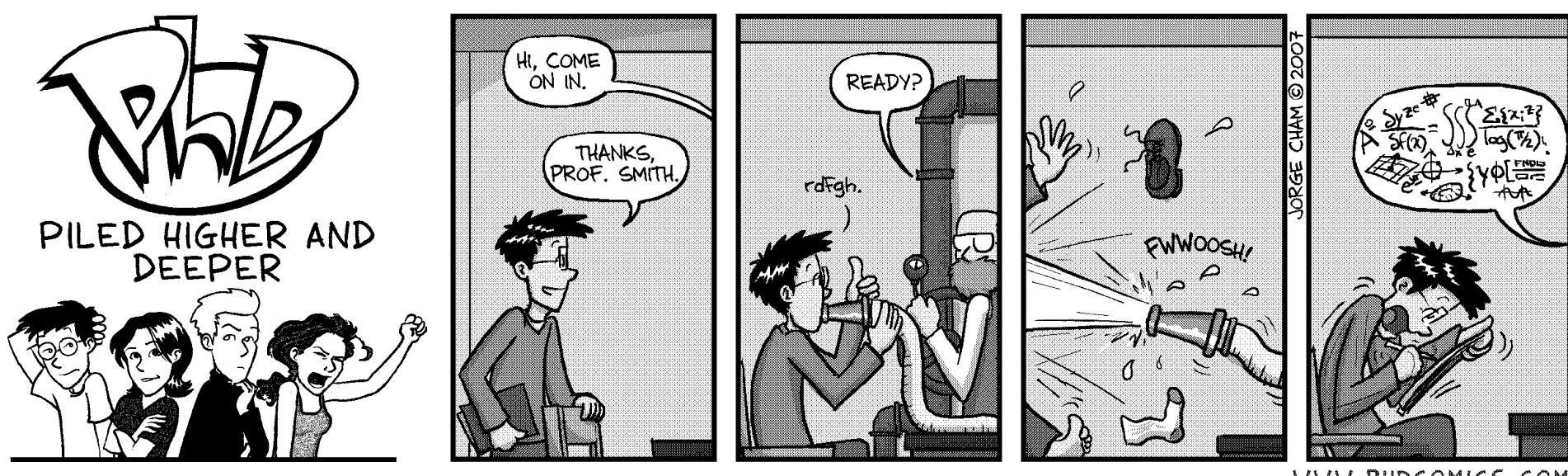
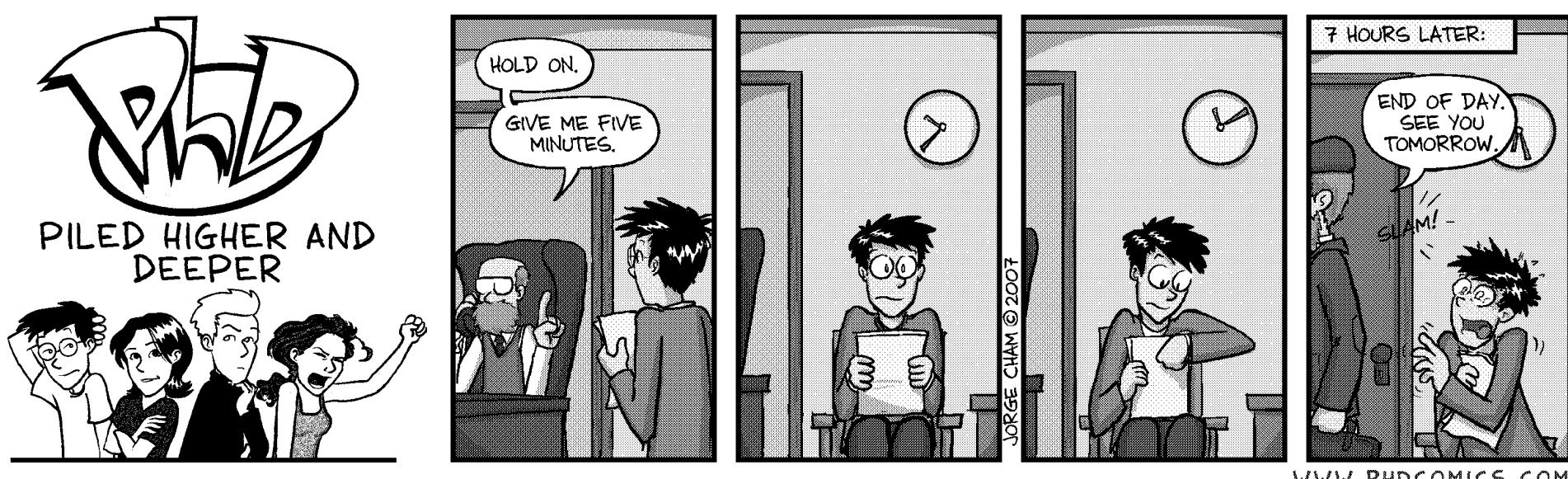
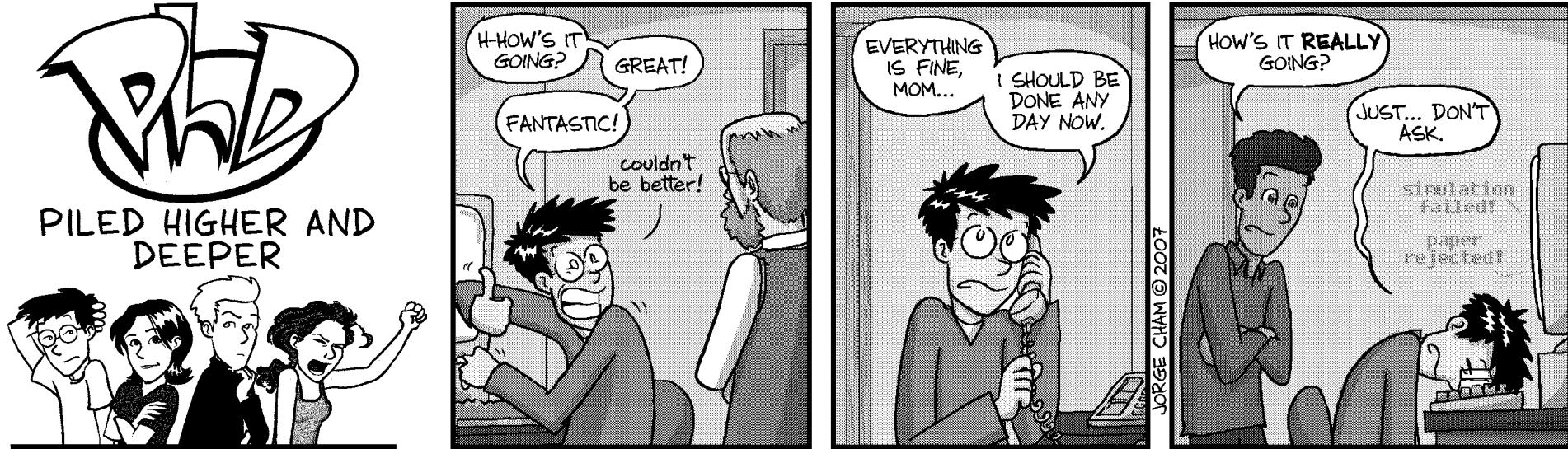
© Puzzles by Pappocom



Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.
Solution on page 14.
Solution, tips, and computer program at <http://www.sudoku.com>

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BY GARRY TRUDEAU

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Eastern Mountain Sports
EASTERN MOUNTAIN SPORTS

Students Learn How To Make Duct Tape Art at ESP's Splash

Splash, from Page 1

grams, Splash gives interested students and volunteers the opportunity to participate without making a huge time commitment. Indeed, the event is billed as a chance for students to "get their feet wet" in a variety of subjects.

This year's course offerings were as diverse as the student teachers that designed the classes. Splash students had the opportunity to learn about the ins and outs of "Duct Tape Design," as well as the art of

"Pulling an All-Nighter." They could also go for something more rigorous, such as "Goal-Oriented Machine Learning" or "The Riemann Hypothesis." Volunteer teachers are permitted to teach almost anything they want and are rarely turned away.

Splash courses tend to be between one and five hours long, although some last longer than that. Zaharopol recalled a course taught a few years ago on database design that spanned 12 hours over two days. Most students, he said, spent about 20 hours in class throughout the weekend, although many opted to take Saturday evening off.

The majority of classes this year were held in the MacLaurin Buildings around Killian Court in order to ease navigation for visitors. Lobby 10 and the adjacent Vannevar Bush Room served as the command centers of the event, where visitors could receive information and purchase souvenirs of this year's Splash.

Jonathan Sailor, a freshman at

Brown University, was one of the people who volunteered to work at the help desk in Lobby 10. He took his first Splash class in 2001 and has continued to take them ever since.

"I liked Splash so much, I couldn't help but come back," Sailor said. In addition to helping at the information desk, he was one of the members of the security staff, which also consists of college student volunteers. This was the first year ESP enlisted the help of a security staff for Splash, according to Sailor.

Splash students had the opportunity to learn about the ins and outs of "Duct Tape Design," as well as the art of "Pulling an All-Nighter."

"The duties of the security staff are not officially spelled out, but they are basically there to make sure everyone's okay," Sailor said. The staff patrols the hallways, assisting those who have questions or need directions.

David N. Farhi '10, who served as co-director of this year's event along with Yalu Wu '09, said that one of the duties of the security staff is to ensure teachers are in their classrooms on time. In a few cases, when teachers did not arrive, classes had to be cancelled. When that occurred, students in the cancelled class were given the option of selecting an alternative class.

Nevertheless, Farhi is happy with how Splash ran. "Everything went smoothly," Farhi said. "There were no major complaints."

Since ESP's inception in 1957, it has organized and run the High School Studies Program, which brings high school students to MIT for classes held over 10 consecutive Saturdays during the semester. Aside from Splash, ESP also organizes programs for SAT preparation and Advanced Placement courses.

Undergraduate Economics Association

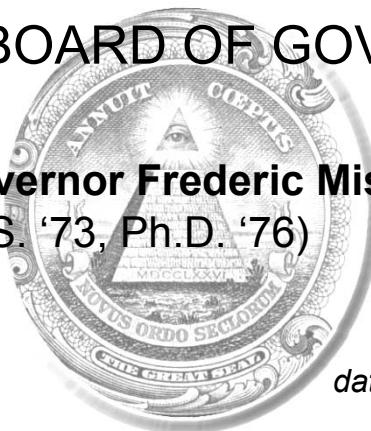
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Festival Jazz Ensemble Pays Tribute to Local Jazz Artists



The MIT Festival Jazz Ensemble performed a concert on Saturday, Nov. 17, titled "Celebrating Boston Jazz & the Music of Charlie Kohlhase." The performance featured Kohlhase as both a saxophonist and a conductor.

(clockwise from above)

Director Frederick E. Harris Jr. hops during a crescendo near the end of "Somethin' Sassy," by Hal Crook.

Arin S. Rogers '11 glances up during Duke Ellington's "In a Sentimental Mood," as arranged by Herb Pomeroy. The song was the first of a two-part medley in memory of Pomeroy, who passed away this year.

Harris (center, rear) looks on as the Ensemble performs Kohlhase's "Jasper Jaguar/Deceptor."

Geoffrey Sheil '09 (left) plays the guitar alongside Kohlhase (right) in "Buhaina Checked Out," a song that Kohlhase composed in memory of jazz drummer Art Blakey (also known as Abdullah Ibn Buhaina).

Matthew J. Rosario '10 plays the electric piano during "In a Sentimental Mood."

(Left to right) Sinan Keten G, Matthew J. Rosario '10, Jack Murphy '10, and Jason Rich G play the closing piece of the concert, Eero Koivistoinen's "Kukonpesä."

Photography by Omari Stephens



Decline of University Tenure Track Raises Concerns

By Alan Finder
THE NEW YORK TIMES

DEARBORN, MICH.

Professors with tenure or who are on a tenure track are now a distinct minority on the country's campuses, as the ranks of part-time instructors and professors hired on a contract have swelled, according to federal figures analyzed by the American Association of University Professors.

Elaine Zendlovitz, a former retail store manager who began teaching college courses six years ago, is representative of the change. Technically, Zendlovitz is a part-time Spanish professor although, in fact, she teaches nearly all the time.

Her days begin at the University of Michigan, Dearborn, with introductory classes. Some days end at 10 p.m. at Oakland Community College, in the suburbs north of Detroit, as she teaches six courses at four institutions.

"I think we part-timers can be everything a full-timer can be," Zendlovitz said during a break in a 10-hour teaching day. But she acknowledged:

"It's harder to spend time with students. I don't have the prep time, and I know how to prepare a fabulous class."

The shift from a tenured faculty results from financial pressures, administrators' desire for more flexibility in hiring, firing and changing course offerings, and the growth of community colleges and regional public universities focused on teaching basics and preparing students for jobs.

But it has become so extreme that some universities are pulling back, concerned about the effect on educational quality. Rutgers University in New Jersey agreed in a labor settlement in August to add 100 tenure or tenure-track positions. Across the country, faculty unions are organizing part-timers. And the American Federation of Teachers is pushing legislation in 11 states to mandate that 75 percent of classes be taught by tenured or tenure-track teachers.

Three decades ago, adjuncts — both part-timers and full-timers not on a tenure track — represented only 43 percent of professors, according to the professors association, which has studied data reported to the federal Education Department. Currently, the association says, they account for nearly 70 percent of professors at colleges and universities, both public and private.

John W. Curtis, the union's director of research and public policy, said that while the number of tenured and tenure-track professors has increased by about 25 percent over the past 30 years, they have been swamped by the growth in adjunct faculty. Overall, the number of people

teaching at colleges and universities has doubled since 1975.

University officials agree that the use of nontraditional faculty is soaring. But some contest the professors association's calculation, saying definitions of part-time and full-time professors vary, and that it is not possible to determine how many courses, on average, each category of professor actually teaches.

Many state university presidents say tight budgets have made it inevitable that they turn to adjuncts to save money.

"We have to contend with increasing public demands for accountability, increased financial scrutiny and declining state support," said Charles F. Harrington, provost of the University of North Carolina, Pembroke. "One of the easiest, most convenient ways of dealing with these pressures is using part-time faculty," he said, though he cautioned that colleges that rely too heavily on such faculty "are playing a really dangerous game."

Mark B. Rosenberg, chancellor of the State University System of Florida said part-timers can provide real-world experience to students and fill gaps in nursing, math, accounting and other disciplines with a shortage of qualified faculty, though he, too, said the shift could come with costs.

Adjuncts are less likely to have doctoral degrees, educators say. They also have less time to meet with students, and research suggests that students who take many courses with them are somewhat less likely to graduate.

"Really, we are offering less educational quality to the students who need it most," said Ronald G. Ehrenberg, director of the Cornell Higher Education Research Institute, noting that the soaring number of adjunct faculty is most pronounced in community colleges and the less select public universities. The elite universities, both public and private, have the fewest adjuncts.

"It's not that some of these adjuncts aren't great teachers," Ehrenberg said. "Many don't have the support that the tenure-track faculty have, in terms of offices, secretarial help and time. Their teaching loads are higher, and they have less time to focus on students."

Ehrenberg and a colleague analyzed 15 years of national data and found that graduation rates declined when public universities hired large numbers of contingent faculty.

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Tues, 11/27	Internship Preparation Rotation Get your resume critiqued. Learn how to craft a cover letter. Practice making a strong first impression.	10 AM – 5 PM	Mezz Lounge
Wed, 11/28	Internship Roundtable, featuring JPMorgan Hear firsthand from company representatives about what they're looking for in a candidate.	7:30 – 9 PM	Mezz Lounge
Thurs, 11/29	Mock Interview Workshop Practice your interviewing skills. Get candid feedback about your sell.	10 AM – 5 PM	Careers Office

Facilities Separates Into Two Divisions

Facilities, from Page 1

ning position. "[Amster] has 20 years of experience at Turner Construction, which is one of the most respected firms here in Boston," Stone said.

"Amster is thrilled to be here and is looking forward to working with the MIT community in supporting the mission of the Institute," Susan E. Crowley, Amster's administrative assistant said.

James H. Wallace, who served as interim chief of Facilities since last June, now works under DiFava in the service component as the chief point of contact for Facilities. There are no other changes to Facilities.

Stone said that the two divisions will maintain active communication despite the formal separation. "[DiFava and Amster] are going to work beautifully together," Stone said.

DiFava was unavailable for comment. Amster declined to comment, stating that he wanted a full perspective on the office before making any statements.

Gov. Patrick Has Enough Votes To Remove UMass Chair Tocco

By Frank Phillips
THE BOSTON GLOBE

Governor Deval Patrick has rounded up enough votes on the University of Massachusetts board of trustees to muscle aside Stephen P. Tocco and probably replace him with Robert J. Manning, an investment executive who is the board's vice chairman, UMass officials say.

Faced with his probable removal as chairman, Tocco, who had initially rejected Patrick's request that he step down before his current expires next summer, is meeting Tuesday with the governor's senior staff. He has been trying to persuade the governor to give him several more months as chairman.

Tocco's term expires in June, but Patrick and his allies are confident they have a slim majority to oust him at the trustees' Dec. 14 meeting, according to UMass officials who have been briefed on the situation.

Tocco, an appointee of Governor Mitt Romney who took over as trustee chairman in 2006, declined to comment.

Tocco has said in the past that he had hoped to work out any differences with the governor and thought that he shared Patrick's vision for the university system.

The governor's office declined to comment.

Tocco beat back an attempt by Patrick's allies to vote him out of the chairmanship in September, handing the governor an embarrassing political defeat.

At the time, Patrick had just placed five new members, his first UMass trustee appointments, on the 19-member board.

Manning did not return a call to his office.

The university sources said it is not clear whether Manning has accepted Patrick's request to take over the post.

Patrick's got involved personally over the last month in seeking the shake-up.

He called several Republican-appointed board members into his office to persuade them to back his move to oust Tocco, while surveying their feelings over who they thought would be best to succeed him.

Over the last few days, Patrick, confident he had gained the backing of a majority to replace Tocco, settled on Manning, the board's current vice chairman and chief executive of MFS Investment Management, a mutual fund and financial services company in Boston that had \$187 billion under management in 2006.

The motivations behind the change are not clear. Manning, like Tocco, is a Romney appointee, raising questions why Patrick chose to wage an internal power struggle, which has produced considerable tension at the top of the state's public university system, to replace one Romney appointee with another.

Officials in Patrick's administration said the governor wants to have his own person running the board when it undertakes some high-profile and far-reaching decisions for the university system. That includes choosing new chancellors for the Amherst campus and the medical school and implementing the governor's \$1 billion capital building plan.

With strong ties to Beacon Hill political figures, Tocco has played major roles in Republican administrations while having close ties to the Democratic leaders on Beacon Hill.

Since the early 1990s, he has been a Cabinet secretary, executive director of the Massachusetts Port Authority, and chairman of the Board of Higher Education.

Because of his years in politics and government, Tocco has a host of strong allies and a long line of en-

emies. His relationship with Patrick seems to be good.

At a university event last week, Patrick greeted Tocco with a warm embrace. But a planned retreat for the board earlier this month was canceled because of the power struggle.

Patrick is the first Democrat to appoint UMass trustees since Michael S. Dukakis left office in 1991, and his power play is emblematic of other attempts he is making to get control of boards and commissions.

Since his election last year, Patrick has said he needs to control the state's independent agencies to govern effectively.

Because of a system of staggered terms designed to insulate the agencies from politics, governors traditionally have to wait until well into their first term to gain control of the powerful public authorities that set far-reaching policies in such areas as transportation, education, and economic development.

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Novartis Partnership To Begin Research on Small Molecule Drugs

Novartis, from Page 1

approaches to developing continuous units, but like Novartis, had not hitherto taken this broad, integrated approach," Bisson said.

The partnership between Novartis and MIT stands apart from most others in pharmaceutical manufacturing "due to the size of the program, investment level, length of time and expected impact," Bisson said. Trout said that the planning for this partnership began over a year ago.

Trout said that the primary research focus for the new center will be on small molecule drugs. Work now would focus on planning the re-

search, obtaining initial results, and trying to interpret them.

Each individual project may take three to four years since the research will be primarily carried out through postdoctoral programs.

According to Trout, the biggest challenge for the partnership is doing something different in an industry that is conservative in its use of manufacturing techniques because of strict regulations.

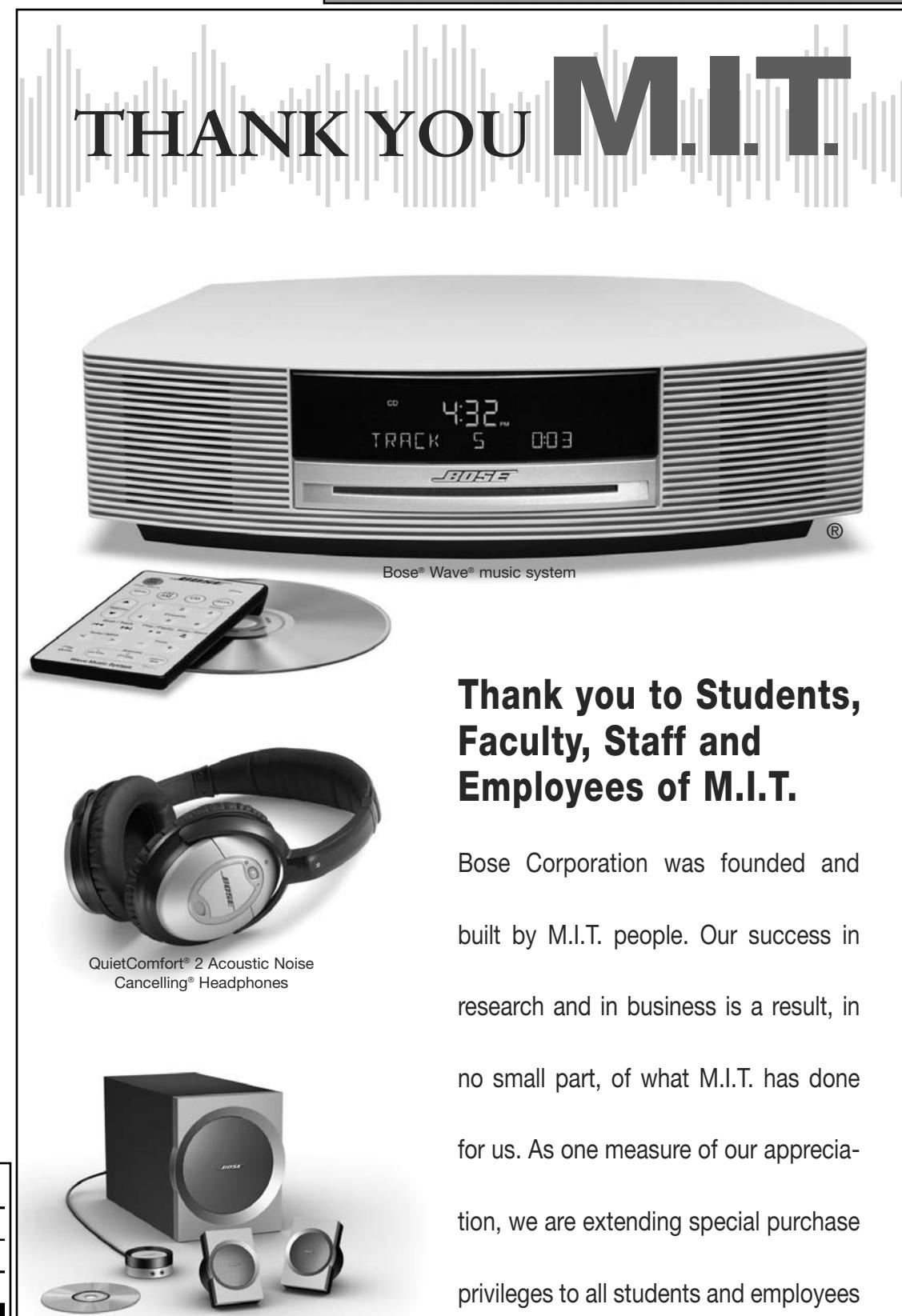
Although the current focus is on small molecules, the partnership will move toward biomolecules in the future after the transition from batch to continuous manufacturing has been achieved, Trout said.

Solution to Crossword									
from page 8									
F	I	T	S		P	A	P	A	J
I	R	A	E		I	T	E	R	A
R	A	G	A		L	O	A	F	C
S	Q	U	A	R	E	B	R	A	H
T	I	P	I	N	S	R	A		A
M	B	A			R	A	T	E	O
A	R	T	I	S	A	N	B	E	R
N	O	O	S	E		H	E	X	T
G	I	M	M	E	S	H	E	L	A
E	L	I			S	I	R	V	I
C	O	I	N	C	O	L	L	E	T
F	L	A	I	R	C	I	A	O	H
E	A	G	L	E	U	N	D	O	A
W	H	E	Y	S	P	E	E	K	S

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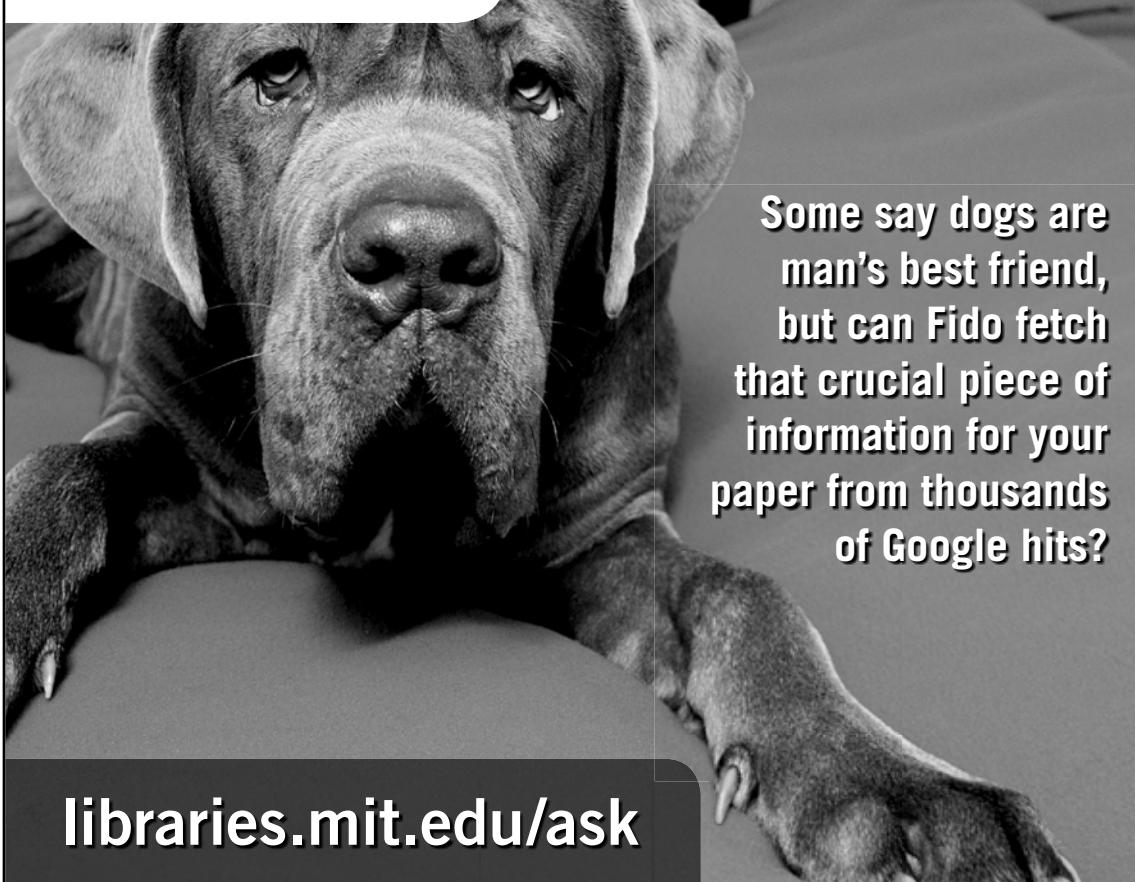
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For information or an application, contact:
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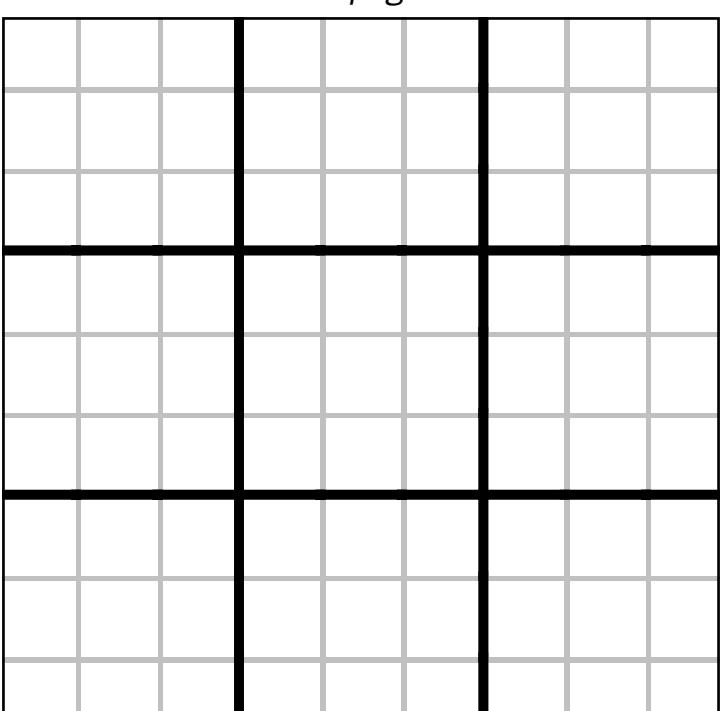
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**Solution to Sudoku
*from page 8***



Sports Shorts, Continued

Sports Shorts, from Page 16

ished with times of 1:37.00 and 1:41.68, respectively.

Tech then grabbed the top four spots in the 1,000-yard freestyle courtesy of Michael J. Dobson '11 (10:03.27), Jack Hill '11 (10:19.04), Harrison K. Hall '08 (10:31.22) and Colin L. Hom '11 (10:48.01), before Charpentier and Wellings finished 1-2 in the 200-yard freestyle by clocking in at 1:46.06 and 1:50.56, respectively.

The Cardinal and Gray once again occupied the 1-2-3 positions in the 100-yard breaststroke, as Racz (1:00.04), Kelvin D. Kao '08 (1:03.44) and John R. Walk '10 (1:04.42) all touched the wall ahead of their opponents. Other events in which MIT copped the top three finishes included the 100-yard freestyle (Charpentier, Cummings, and Wellings), the 200-yard breaststroke (Racz, Kao, and Walk) and the 100-yard butterfly (Sepp, Hu, and George J. Rossick '11).

The Engineers' most impressive performance of the afternoon occurred in the 500-yard freestyle, in which they occupied spots one through five. Dobson picked up his second victory of the afternoon by clocking in at 4:54.54, and was followed by Hill (4:59.35), Udit Garg '09 (5:09.15), Zachary C. Cordero '10 (5:11.32), and Eric J. Roselli '11 (5:15.12).

Zhou won the 100-yard backstroke with a time of 53.80, Cummings took top honors in the 50-yard freestyle by touching the wall at 22.24, and Hu (2:02.21) and Sepp (2:03.57) finished 1-2 in the 200-yard butterfly.

MIT also grabbed the top four spots in the 200-yard individual medley and had the fastest relay team in the 200-yard freestyle relay, but the events counted as exhibitions, as the Engineers had already wrapped up the victories.

The Engineers will return to action in two weeks time at the MIT Invitational on Friday, Nov. 30 and Saturday, Dec. 1.

—Jeff Lemieux, DAPER Staff

Men's Ice Hockey Downs University of New England, 4-1

Justin D. Myers '11 scored his first intercollegiate goal and fellow rookie Stephen L. Yablonski '11 notched his first intercollegiate win between the pipes, as the Engineers defeated the University of New England, 4-1, in NorthEast Collegiate Hockey Association Conference A East Division action on Friday night. MIT's record remained unblemished at 4-0-0 (3-0-0 NECHA) courtesy of the victory, while the Nor'easters fell to 0-5-1 (0-3-0 NECHA).

Ryan W. Ballantine '09 opened the scoring on a power-play at 12:41 of the first period, finding the net courtesy of feeds from Nicholas R. LaBounty '09 and Michael C. Kozlowski '08. Just over one minute later, it was Kozlowski's turn to score, as he netted the ultimate game-winner with help from Myers and Dustin P. Kendrick '09.

Exactly halfway through the second period, Kendrick and Ian M. Rousseau '09 fed Myers for his first-ever tally, while LaBounty rounded out the scoring for the Engineers at 4:08 of the period with assists credited to Ballantine and Kevin M. Farino '10.

The University of New England, which is maintaining a men's ice hockey program for the first time since the early 1980s, spoiled Yablonski's shutout bid with 8:16 remaining in the final period. The Nor'easters' leading scorer, Chris McCauley, rifled a wrist-shot past the rookie's blocker after taking a pass from Travis Pease.

Last Wednesday, the Engineers were victorious over Endicott College, 5-0.

The Engineers will return to the ice following a two-week hiatus when they will travel to Worcester, Mass., to take on Worcester Polytechnic Institute at 8:30 p.m. on Friday, Nov. 30.

—Jeff Lemieux, DAPER Staff

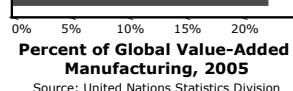
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Mahjub's Strong Performance Earns All-Tourney Recognition

Basketball, from Page 16

2, to establish a 42-22 led. However, a basket and a three-pointer from Simpson narrowed the margin to 42-27.

This was as close as it would get as the Rams maintained the momentum throughout the rest of the game.

Mahjub finished the day with 12 points, nine rebounds, and a block

while Yuan paced the Engineers with 14 points. Soo Hoo dished out a game-high seven assists as Kwinn and Kristen E. Whaley '11 each grabbed five boards.

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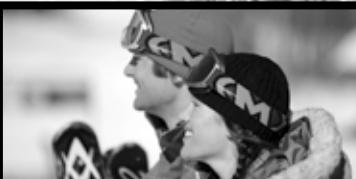
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SPORTS

MIT Falls to Suffolk in Tip Off Tourney Championship Game

By Mindy Brauer

DAPER STAFF

MIT fell to Suffolk University, 61-42, in the championship game of the MIT Women's Basketball Tip Off Tournament on Saturday after opening its season with an overtime win against Framingham State College. The Engineers outlasted Framingham State, 71-59, in the first game of the Tip Off Tournament on Friday, to advance to the championships.

Suffolk University picked up a 67-57 win over Westfield State College to advance to the championship game. In the consolation game, Westfield State defeated Framingham, 71-49.

MIT defeats Framingham State, advances to Tip Off championship

MIT (1-0) went on a 9-2 run during the first seven minutes of Friday's game. Framingham State slowly chipped away at the deficit and eventually established a 17-16 edge on a jumper by Christina Bordini with 6:34 on the clock. After exchanging baskets, a pair of free throws from Samia A. Mahjub G put the Engineers ahead, 21-20, at the 2:18 mark. MIT converted three of its next four attempts at the charity stripe down the stretch before a basket by the Rams' Toya Chester with 10 seconds left made the score, 24-22.

Cheryl M. Kwinn '09 opened

the scoring for the Engineers in the second half, which was quickly answered by a basket from Bordini. Sally W. Simpson '10 extended MIT's lead to four (28-24) before the game became a defensive battle for the next four minutes. Meghan Czarnecki ended the scoring drought and Jill Johnson's jumper knotted the contest at 28. A three-pointer by Mahjub was replicated by Framingham State's Kelleigh Sheehan and helped power it to a 37-33 advantage halfway through the frame.

Baskets by Simpson 1:32 apart resulted in the fourth tie of the half. The Rams regained the lead on Jenna Haselhurst's trey as they extended their margin to five on two occasions, the last being at 47-42 with 4:24 remaining. MIT countered with seven straight points during a span of 2:26 to go up, 49-47. Bordini's basket was followed by a lay-up from Kimberly Soo Hoo '08 on the Engineers' ensuing possession. Taryn DiFilippo's jumper registered the seventh tie of the night at 51, but a free throw by Soo Hoo returned the edge to MIT with 35 seconds left to play. DiFilippo sent the game into overtime by converting her second free throw attempt with six seconds on the clock.

Framingham State posted four of the first six points of the extra session, but a three-pointer by Simpson sparked an 8-0 run for the Engineers during the next 2:39. A put-back by Kate Simonelli coupled with a free throw from Haselhurst narrowed the

gap to six (65-59) with 47 seconds remaining. MIT closed out the contest by shooting 6-for-9 from the free throw line.

Mahjub led all scorers with 23 points and 20 rebounds, collecting 10 caroms on each side of the floor. Soo Hoo totaled 14 points and three assists while Simpson registered 11 points and three assists in her inter-collegiate debut. Clara J. Yuan '09 posted 12 points and three steals for the Engineers.

Engineers fall to Suffolk in tournament title game

MIT fell to Suffolk University, 61-42, in the championship game of the MIT Women's Basketball Tip Off Tournament on Saturday. Earning All-Tournament Team honors was Bordini (Framingham), Andrea Wasuk (Westfield), Stephanie Morrissey (Suffolk), and Mahjub (MIT). Meghan Tracey of Suffolk was selected as the Tournament MVP.

The early stages of the championship game were closely played as it featured 10 lead changes. A basket by Yuan gave the Engineers (1-1) their largest margin of the day at 13-10 with 11:09 on the clock. Exactly 40 seconds later, Katie Castignetti's jumper ignited a 24-7 run for the Rams (2-0) that resulted in a 34-20 advantage at the intermission.

During the first five minutes of the second half Suffolk outscored MIT, 8-

Basketball, Page 15



Fencing Competes At BU Tourney

The men's and women's fencing teams travelled to Boston University this past Saturday, Nov. 17, to compete in a Northeast Fencing Conference tournament.

(left) Javier J. Ordonez '10 (left) begins an attack against his Boston University opponent during an épée bout.

(below) Lindley C. Graham '10 (right) jumps back as her opponent charges during a foil fencing bout.

Photography by Omari Stephens



UPCOMING HOME EVENTS

Saturday, Nov. 24, 2007

Men's Basketball vs. Suffolk University

2 p.m., Rockwell Cage

Men's Basketball Loses to Western Connecticut, 83-77

Point guard Tyshawn Gillespie posted team highs of 17 points and four assists to lead Western Connecticut to a 83-77 victory over MIT in the opening round of the Emmanuel College Tip-Off Tournament. The

Engineers received sizeable contributions from James M. "Jimmy" Bartolotta '09, Billy Johnson '09, and Hamidou Soumare '07 but couldn't offset the Colonials' balanced attack and a 40-5 advantage off the bench.

The men's basketball season-opener on Saturday was tight throughout and featured 11 ties and 11 lead changes. The largest lead of the tilt by either team was a seven-point advantage for the Colonials, which MIT quickly reduced to four after a three-pointer by Bartolotta midway through the second half. The Engineers' biggest edge of the evening was five with 13 minutes left in the first period.

After battling to a 33-33 tie through the first 20 minutes, both teams picked up the pace in the second half. Bartolotta, who scored 24 points on 8-of-16 shooting, including 4-of-6 from three-point range, kept MIT in contention during a wild second half.

With the Engineers attempting to even the score and time running out in the second half, Western Connecticut guard Dashon Jennings connected on three consecutive baskets from beyond the arc to keep the MIT offense at bay.

—James Kramer, DAPER Staff

Wrestling Loses to Rhode Island College, 33-12

Grant M. Kadokura '11, Joseph B. Silverman '10, and Glenn J. Geesman '09 all earned convincing wins over Rhode Island College, but MIT lost the overall battle, 33-12, in its first dual meet of the season on Wednesday, Nov. 14. In matches played out, the Engineers equalled the Anchormen in victories, though three forfeits by Tech in the middle matches proved costly.

At 125 pounds, Kadokura gave the Engineers a quick lead, taking a 6-1 decision over Greg Martell. Tech dropped the next two matches, though Kenzan Tanabe '11 put up a good fight in a 17-10 loss to Mike Bonora at 141 pounds.

After the three giveaways, Silverman won a 6-1 decision over Nick Logan at 184 pounds. Tech suffered another setback, before Geesman, at 285, prevailed by pin in 1:11.

—Mike Stoller, DAPER Staff

Women's Swimming Tops Babson, Falls to Bowdoin

Nicole M. O'Keeffe '09 paced MIT's women's swimming and diving team with three victories on Saturday afternoon, helping the Engineers earn a split with host Bowdoin College and New England Women's and Men's Athletic Conference opponent Babson College. MIT downed Babson, 208-48, but were edged by the Polar Bears, 139-130.

Bowdoin defeated the Beavers, 195-59, in the afternoon's other match-up.

The Cardinal and Gray stand at 2-1 overall and 2-0 in the NEWMAC following the split, while Bowdoin improved to 2-0 and Babson fell to 2-4 overall and 1-1 in the conference.

O'Keeffe earned the Engineers' first victory of the afternoon in the 1,000-yard freestyle, finishing 1-2 with teammate Rachel E. Price '10. O'Keeffe clocked in at 11:02.10 to earn top honors, while Price followed closely behind at 11:18.93. O'Keeffe then copped maximum points in the 200-yard breaststroke (2:37.08) and the 200-yard individual medley (2:18.51).

Amy E. Jacobi '11 also placed first in two swimming events, winning the 50-yard freestyle with a time of 24.77 before touching the wall first in the 500-yard freestyle with a mark of 5:14.01.

Captain Doria M. Holbrook '08 continued her march toward a third national title by winning both the one-meter (251.18) and three-meter (255.08) diving competitions.

Last Wednesday night, the Engineers opened its dual meet schedule with a 179-118 victory over NEWMAC foe Wellesley College.

The Engineers will return to action in two weeks' time, as they will host the MIT Invitational on Friday, Nov. 30 and Saturday, Dec. 1.

—Jeff Lemieux, DAPER Staff

Men's Swimming Defeats Bowdoin and Babson

MIT's men's swimming and diving team opened its dual meet schedule in stunning fashion on Saturday afternoon, winning 13 out of 14 swimming events en route to victories over host Bowdoin College (170-82) and New England Women's and Men's Athletic Conference foe Babson College (175-73). Bowdoin defeated Babson, 173-66, in the afternoon's other match-up.

The Engineers, who boasted the top three finishers in seven different events, improved to 2-0 overall and 1-0 in the NEWMAC with the pair of wins. Meanwhile, the Polar Bears moved to 1-1 with the split and the Beavers fell to 3-4 (0-2 NEWMAC) with the losses.

Jeffrey Y. Zhou '10, Rastislav Racz '10, Laurent Charpentier '10, and Luke R. Cummings '10 got the afternoon started for MIT with a victory in the 200-yard medley relay, touching the wall just over four seconds ahead of teammates Toomas R. Sepp '11, Deke Hu '09, Brendon M. Sullivan '11 and Peter J. Wellings '09. The two foursomes fin-

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